

Ethiopian Airlines NDC API Documentation

IATA NDC Schema 2017.2

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Legal Disclaimer

Development:

Ethiopian Airlines NDC API was originally developed by AA Advanced Information Technology Plc, the IT consultant for the Ethiopian Airlines on the IATA NDC implementation project. Subsequently, Ethiopian Airlines has made successive revisions on the API and reserves the right to make further revisions, independently or in collaboration with AA Advanced Information Technology, in the future without prior notice to end users.

Documentation:

This documentation was originally written by AA Advanced Information Technology Plc, the IT consultant for the Ethiopian Airlines on the IATA NDC implementation project, and is intended as a guide for the purpose of communicating with the Ethiopian Airlines NDC API (Schema IATA 2017.2). Ethiopian Airlines has made successive revisions on this document to serve users/partners agreed to connect to its NDC API and reserves the right to make further revisions in the future without prior notice to end users

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ENDPOINTS LIST

ENDPOINT URL:

Test BaseURL	https://aks-cluster-ndc.ethiopianairlines.com
Authentication	
Authentication	{{BaseUrl}}/{{relative}}/Auth
AirShopping	
AirShopping	{{BaseUrl}}/{{relative}}/AirShopping
OfferPrice	{{BaseUrl}}/{{relative}}/OfferPrice
OrderCreate	{{BaseUrl}}/{{relative}}/OrderCreate
OrderRetrieve	{{BaseUrl}}/{{relative}}/OrderDetailRetrieve
AirDocIssue	{{BaseUrl}}/{{relative}}/AirDocIssue
Exchange	
OrderView	{{BaseUrl}}/{{relative}}/OrderView
OrderReshop	{{BaseUrl}}/{{relative}}/Exchange/OrderReshop
OrderChange	localhost:1012/Exchange/OrderChange
Refund	
OrderView	{{BaseUrl}}/{{relative}}/OrderRetrieve
OrderReshop	{{BaseUrl}}/{{relative}}/Refund/OrderReshop
OrderCancel	{{BaseUrl}}/{{relative}}/Refund/OrderCancel
Void	
OrderRetrive	{{BaseUrl}}/{{relative}}/Void/OrderRetrieve
VoidTickets	{{BaseUrl}}/{{relative}}/Void/Void
Cancel	
OrderRetrive	{{BaseUrl}}/{{relative}}/Cancel/OrderRetrieve
CancelAir	{{BaseUrl}}/{{relative}}/Cancel/CancelPnr
OrderRule	
OrderRule	{{BaseUrl}}/{{relative}}/OrderRule/OrderRule
ADD/UpdateIdentityDoc	
ADD/UpdateIdentityDoc	{{BaseUrl}}/{{relative}}/ ADD/UpdateIdentityDoc /ADD/UpdateIdentityDoc
SeatAvailability	
SeatAvailability	{{BaseUrl}}/{{relative}}/SeatAvailabilit /SeatAvailability
FreeMeal	
OrderRetrive	{{BaseUrl}}/{{relative}}/FreeMeal/OrderDetailRetrieve
RetriveFreeMeal	{{BaseUrl}}/{{relative}}/FreeMeal/FreeMeal

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OrderChange	{{BaseUrl}}/{{relative}}/FreeMeal/OrderFreeMeal
	FQTV
OrderRetrive	{{BaseUrl}}/{{relative}}/FQTV/OrderDetailRetrieve
ADDFQTV	{{BaseUrl}}/{{relative}}/OrderChange/AddLoyaltyNumber
updateFQTV	{{BaseUrl}}/{{relative}}/OrderChange/UpdateLoyaltyNumber
	Special Services
OrderRetrive	{{BaseUrl}}/{{relative}}/OrderRetrive/OrderDetailRetrieve
ServiceList	{{BaseUrl}}/{{relative}}/SpecialService/SpecialService

AUTHENTICATION

All communication through the service URL endpoint requires a valid authentication token, hence, a request must have the below content.

Key	Value
Client	
Secret	
Scope	
grant_type	

URL: {{BaseUrl}}/{{relative}}/Au

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NDC SCOPE

The ET NDC implementation covers NDC Shopping, Order create and Order Price, Ticketing, exchange and Refund.

NDC SHOPPING

This schema allows Ethiopian Airlines to distribute offers and merchandise flight services. Basic Shopping only is supported which allows you to request for flights by specifying origin, destination and travel dates in your search criteria.

The NDC Shopping Messages supported are:

- AirShoppingRQ/RS,
- OfferPriceRQ/RS, and
- OrderCreateRQ/OrderViewRS

Please note that there is a convention used in this documentation. For example, optional nodes in the request messages are in grey text just like this line. For brevity, xml messages in this document have an xml comment like this `<!-- Simplified for brevity -->` in the messages. A **bold text** or underline is used for emphasis.

AIRSHOPPINGRQ/RS

The AirShoppingRQ schema allows you to search for a flight from one origin to one destination or from an initial origin to multiple cities.

- The currency override allows to pass specific currency that you are allowed to sell on a specific origin other ways the default currency will be applicable

AIRSHOPPING FOR ONE WAY

REQUEST HEADER:

KEY	VALUE	REQUIRED
Content-Type	application/xml	Yes
Accept	application/xml	Yes
Authorization	Bearer {{access_token}}	Yes

Access token is required to communicate with the Ethiopian Airlines NDC endpoint, hence, you need to pass in the token you received after authentication.

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URL: {{BaseUrl}}/{{relative}}/AirShopping

REQUEST BODY:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<AirShoppingRQ xmlns="http://www.iata.org/IATA/EDIST/2017.2" Version="2017.2" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Document>
    <Name>ETHIOPIAN AIRLINES NDC </Name>
    <ReferenceVersion>1.0</ReferenceVersion>
  </Document>
  <Party>
    <Sender>
      <TravelAgencySender>
        <Name>Ethiopianairlines TravelAgency</Name>
        <IATA_Number>12121212</IATA_Number>
        <AgencyID Owner="ET">A345345435</AgencyID>
      </TravelAgencySender>
    </Sender>
    <Participants>
      <Participant>
        <AggregatorParticipant SequenceNumber="1">
          <Name>AAAIT PLC</Name>
          <AggregatorID>88888888</AggregatorID>
        </AggregatorParticipant>
      </Participant>
    </Participants>
    <Recipient>
      <ORA_Recipient>
        <AirlineID>ET</AirlineID>
        <Name>ETHIOPIAN AIRLINES</Name>
      </ORA_Recipient>
    </Recipient>
  </Party>
  <CoreQuery>
    <OriginDestinations>
      <OriginDestination>
        <Departure>
```

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```
<AirportCode>ADD</AirportCode>
<Date>2021-12-25</Date>
</Departure>
<Arrival>
  <AirportCode>NBO</AirportCode>
</Arrival>
</OriginDestination>
</OriginDestinations>
</CoreQuery>
<Preference>
  <CabinPreferences>
    <CabinType>
      <Code>7</Code>
    </CabinType>
  </CabinPreferences>
</Preference>
<Parameters>
  <Pricing>
    <OverrideCurrency>ETB</OverrideCurrency>
  </Pricing>
</Parameters>
<Qualifier>
  <PromotionQualifiers>
    <Code>5SDFEX9898</Code>
  </PromotionQualifiers>
</Qualifier>
<DataLists>
  <PassengerList>
    <Passenger PassengerID="PAX001">
      <PTC>ADT</PTC>
      <LoyaltyProgramAccount>
        <AccountNumber>00098577430</AccountNumber>
      </LoyaltyProgramAccount>
    </Passenger>
    <Passenger PassengerID="PAX002">
      <PTC>ADT</PTC>
      <LoyaltyProgramAccount>
        <AccountNumber>0009577430</AccountNumber>
      </LoyaltyProgramAccount>
    </Passenger>
  </PassengerList>
</DataLists>
```

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```
        </LoyaltyProgramAccount>
    </Passenger>
</PassengerList>
</DataLists>
</AirShoppingRQ>
```

REQUEST BODY INFORMATION:

AirShoppingRQ	Root node of the request schema
Party	Aggregator and OTA information
Sender	
TravelAgencySender	Travel agency involved in the request
Name	Travel agency's official name
IATA_Number	Travel agency's IATA number
AgencyID	Travel agency's Agency ID
Participants	List of aggregators involved in the request
Participant	
AggregatorParticipant	
@SequenceNumber	Unique position in the list e.g. 1, 2, 3
Name	Aggregator's official name
AggregatorID	Aggregator's ID
Recipient	
ORA_Recipient	Offer responsible airline information
AirlineID	IATA Airline code e.g. ET
Name	Ethiopian Airlines

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CoreQuery	
OriginDestinations	List of origin and destination
OrginDestination	
Departure	
AirportCode	Airport 3 letter code e.g. DXB
Date	Departure date
Arrival	
AirportCode	Airport 3 letter code e.g. LHR
Preference	Search returns all cabin if preference is not specified
PromotionQualifiers	
CabinType Code	0 – PremiumFirst 1 – First 2 – PremiumBusiness 3 – Business 4 – PremiumEconomy 5 – Economy
PromotionQualifiers	
Code	Promotion code
Passenger	
@PassengerID	Unique passenger identifier e.g. PAX001
PTC	Passenger type e.g. ADT, CHD, INF
LoyaltyProgramAccount	
AccountNumber	Passenger loyalty number

1. **Economy promo** fares brands is the brand with cheapest fares and with restrictive rules / mostly they apply charges for exchange and refund (O, E, T, Q, U and any fares with promotion introduced for shorter sales period)
2. **Economy semi flex** is the brand with relatively higher fares than promo and relatively relaxed rules (H, V, L, K, M, B)
3. **Economy flex** are fares brands with higher fares and fully relaxed rules (S, G, Y) they may allow for free date change etc.
4. **Cloud 9 Restricted** brand is the cheapest business class fare with restrictive rules (P, D, J) mostly they apply charges for exchange and refund
5. **Cloud 9 deluxe** is the highest business class fare with fully relaxed rules (c) they may allow for free date change etc.

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RESPONSE BODY:

```
<AirShoppingRS xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://www.iata.org/I
ATA/EDIST/2017.2">

  <ShoppingResponseID>

    <ResponseID>9FZ8XT7TW6SCGX</ResponseID>

  </ShoppingResponseID>

  <OffersGroup>

    <AirlineOffers>

      <Offer OfferID="OFFERFLT001" Owner="ET">

        <TimeLimits>

          <OfferExpiration Timestamp="2021-07-03T06:18:53.1709334Z" />

        </TimeLimits>

        <OfferItem OfferItemID="OFFERITEM-1446500599">

          <TotalPriceDetail>

            <TotalAmount>

              <SimpleCurrencyPrice Code="ETB">52377</SimpleCurrencyPr
ice>

            </TotalAmount>

            <BaseAmount Code="ETB">39999</BaseAmount>

            <Taxes>

              <Total Code="ETB">12378</Total>

            </Taxes>

          </TotalPriceDetail>

          <Service ServiceID="SV_FLT001">

            <PassengerRefs>PX001 PX002 PX005</PassengerRefs>

            <ServiceRef>SD_ES</ServiceRef>

          </Service>

        </OfferItem>

      </AirlineOffers>

    </OffersGroup>

  </AirShoppingRS>
```

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```
<FlightRefs>FLT001</FlightRefs>

</Service>

</OfferItem>

<OfferItem OfferItemID="OFFERITEM-2811381359">

  <TotalPriceDetail>

    <TotalAmount>

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rice>

    </TotalAmount>

    <BaseAmount Code="ETB">129270</BaseAmount>

    <Taxes>

      <Total Code="ETB">12378</Total>

    </Taxes>

  </TotalPriceDetail>

  <Service ServiceID="SV_FLT002">

    <PassengerRefs>PX001 PX002 PX005</PassengerRefs>

    <ServiceRef>SD_EF</ServiceRef>

    <FlightRefs>FLT002</FlightRefs>

  </Service>

</OfferItem>

<OfferItem OfferItemID="OFFERITEM-0456883845">

  <TotalPriceDetail>

    <TotalAmount>

      <SimpleCurrencyPrice Code="ETB">330088</SimpleCurrencyP
rice>

    </TotalAmount>

    <BaseAmount Code="ETB">317710</BaseAmount>

    <Taxes>
```

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```
<Total Code="ETB">12378</Total>

</Taxes>

</TotalPriceDetail>

<Service ServiceID="SV_FLT003">

    <PassengerRefs>PX001 PX002 PX005</PassengerRefs>

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</OfferItem>

<OfferItem OfferItemID="OFFERITEM-6725248919">

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        <TotalAmount>

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rice>

        </TotalAmount>

        <BaseAmount Code="ETB">443410</BaseAmount>

        <Taxes>

            <Total Code="ETB">12378</Total>

        </Taxes>

    </TotalPriceDetail>

    <Service ServiceID="SV_FLT004">

        <PassengerRefs>PX001 PX002 PX005</PassengerRefs>

        <ServiceRef>SD_CD</ServiceRef>

        <FlightRefs>FLT004</FlightRefs>

    </Service>

</OfferItem>

</Offer>
```

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```
<Offer OfferID="OFFERFLT002" Owner="ET">

  <TimeLimits>

    <OfferExpiration Timestamp="2021-07-03T06:18:53.1798422Z" />

  </TimeLimits>

  <OfferItem OfferItemID="OFFERITEM-4720001004">

    <TotalPriceDetail>

      <TotalAmount>

        <SimpleCurrencyPrice Code="ETB">52377</SimpleCurrencyPr
ice>

      </TotalAmount>

      <BaseAmount Code="ETB">39999</BaseAmount>

      <Taxes>

        <Total Code="ETB">12378</Total>

      </Taxes>

    </TotalPriceDetail>

    <Service ServiceID="SV_FLT005">

      <PassengerRefs>PX001 PX002 PX005</PassengerRefs>

      <ServiceRef>SD_ES</ServiceRef>

      <FlightRefs>FLT005</FlightRefs>

    </Service>

  </OfferItem>

  <OfferItem OfferItemID="OFFERITEM-2999321204">

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      <TotalAmount>

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rice>

      </TotalAmount>

      <BaseAmount Code="ETB">129270</BaseAmount>
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```
<Taxes>

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</Taxes>

</TotalPriceDetail>

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    <PassengerRefs>PX001 PX002 PX005</PassengerRefs>

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    <FlightRefs>FLT006</FlightRefs>

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</OfferItem>

<OfferItem OfferItemID="OFFERITEM-3154379296">

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rice>

        </TotalAmount>

        <BaseAmount Code="ETB">169356</BaseAmount>

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        </Taxes>

    </TotalPriceDetail>

    <Service ServiceID="SV_FLT007">

        <PassengerRefs>PX001 PX002 PX005</PassengerRefs>

        <ServiceRef>SD_CX</ServiceRef>

        <FlightRefs>FLT007</FlightRefs>

    </Service>

</OfferItem>
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```
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  <TotalPriceDetail>

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rice>

    </TotalAmount>

    <BaseAmount Code="ETB">443410</BaseAmount>

    <Taxes>

      <Total Code="ETB">12378</Total>

    </Taxes>

  </TotalPriceDetail>

  <Service ServiceID="SV_FLT008">

    <PassengerRefs>PX001 PX002 PX005</PassengerRefs>

    <ServiceRef>SD_CD</ServiceRef>

    <FlightRefs>FLT008</FlightRefs>

  </Service>

</OfferItem>

</Offer>

<Offer OfferID="OFFERFLT003" Owner="ET">

  <TimeLimits>

    <OfferExpiration Timestamp="2021-07-03T06:18:53.1800052Z" />

  </TimeLimits>

  <OfferItem OfferItemID="OFFERITEM-8247260423">

    <TotalPriceDetail>

      <TotalAmount>

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ice>

      </TotalAmount>
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</Taxes>

</TotalPriceDetail>

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    <ServiceRef>SD_ES</ServiceRef>

    <FlightRefs>FLT009</FlightRefs>

</Service>

</OfferItem>

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    <TotalPriceDetail>

        <TotalAmount>

            <SimpleCurrencyPrice Code="ETB">141648</SimpleCurrencyP
rice>

        </TotalAmount>

        <BaseAmount Code="ETB">129270</BaseAmount>

        <Taxes>

            <Total Code="ETB">12378</Total>

        </Taxes>

    </TotalPriceDetail>

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        <PassengerRefs>PX001 PX002 PX005</PassengerRefs>

        <ServiceRef>SD_EF</ServiceRef>

        <FlightRefs>FLT010</FlightRefs>

    </Service>
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```
</OfferItem>

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  <TotalPriceDetail>

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rice>

    </TotalAmount>

    <BaseAmount Code="ETB">317710</BaseAmount>

    <Taxes>

      <Total Code="ETB">12378</Total>

    </Taxes>

  </TotalPriceDetail>

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    <PassengerRefs>PX001 PX002 PX005</PassengerRefs>

    <ServiceRef>SD_CX</ServiceRef>

    <FlightRefs>FLT011</FlightRefs>

  </Service>

</OfferItem>

<OfferItem OfferItemID="OFFERITEM-5264843284">

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    <TotalAmount>

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rice>

    </TotalAmount>

    <BaseAmount Code="ETB">443410</BaseAmount>

    <Taxes>

      <Total Code="ETB">12378</Total>

    </Taxes>
```

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```
</TotalPriceDetail>

<Service ServiceID="SV_FLT012">

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    <ServiceRef>SD_CD</ServiceRef>

    <FlightRefs>FLT012</FlightRefs>

</Service>

</OfferItem>

</Offer>

</AirlineOffers>

</OffersGroup>

<DataLists>

    <PassengerList>

        <Passenger PassengerID="PX001">

            <PTC>ADT</PTC>

        </Passenger>

        <Passenger PassengerID="PX002">

            <PTC>CHD</PTC>

        </Passenger>

        <Passenger PassengerID="PX005">

            <PTC>ADT</PTC>

        </Passenger>

    </PassengerList>

    <FlightSegmentList>

        <FlightSegment SegmentKey="SEG_ADDDXB_001">

            <Departure>

                <AirportCode>ADD</AirportCode>

                <Date>2021-07-20</Date>
```

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```
<Time>21:45:00</Time>

</Departure>

<Arrival>

  <AirportCode>DXB</AirportCode>

  <Date>2021-07-21</Date>

  <Time>02:55:00</Time>

  <Terminal>

    <Name>2</Name>

  </Terminal>

</Arrival>

<MarketingCarrier>

  <AirlineID>ET</AirlineID>

  <FlightNumber>600</FlightNumber>

</MarketingCarrier>

<OperatingCarrier>

  <AirlineID>ET</AirlineID>

  <FlightNumber>600</FlightNumber>

</OperatingCarrier>

<Equipment>

  <AircraftCode>350</AircraftCode>

</Equipment>

<ClassOfService>

  <Code>H</Code>

  <MarketingName>ECONOMY</MarketingName>

  <FareBasisCode>HOWET</FareBasisCode>

</ClassOfService>

<FlightDetail>
```

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```
<FlightDistance>
  <Value>1562</Value>
  <UOM>Miles</UOM>
</FlightDistance>
<FlightDuration>
  <Value>250</Value>
</FlightDuration>
</FlightDetail>
</FlightSegment>
<FlightSegment SegmentKey="SEG_ADDDXB_002">
  <Departure>
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    <Time>21:45:00</Time>
  </Departure>
  <Arrival>
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    <Date>2021-07-21</Date>
    <Time>02:55:00</Time>
    <Terminal>
      <Name>2</Name>
    </Terminal>
  </Arrival>
  <MarketingCarrier>
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    <FlightNumber>600</FlightNumber>
  </MarketingCarrier>
```

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```
<OperatingCarrier>

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  <FlightNumber>600</FlightNumber>

</OperatingCarrier>

<Equipment>

  <AircraftCode>350</AircraftCode>

</Equipment>

<ClassOfService>

  <Code>S</Code>

  <MarketingName>ECONOMY</MarketingName>

  <FareBasisCode>SOWET</FareBasisCode>

</ClassOfService>

<FlightDetail>

  <FlightDistance>

    <Value>1562</Value>

    <UOM>Miles</UOM>

  </FlightDistance>

  <FlightDuration>

    <Value>250</Value>

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</FlightDetail>

</FlightSegment>

<FlightSegment SegmentKey="SEG_ADDDXB_003">

  <Departure>

    <AirportCode>ADD</AirportCode>

    <Date>2021-07-20</Date>

    <Time>21:45:00</Time>
```

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```
</Departure>

<Arrival>

  <AirportCode>DXB</AirportCode>

  <Date>2021-07-21</Date>

  <Time>02:55:00</Time>

  <Terminal>

    <Name>2</Name>

  </Terminal>

</Arrival>

<MarketingCarrier>

  <AirlineID>ET</AirlineID>

  <FlightNumber>600</FlightNumber>

</MarketingCarrier>

<OperatingCarrier>

  <AirlineID>ET</AirlineID>

  <FlightNumber>600</FlightNumber>

</OperatingCarrier>

<Equipment>

  <AircraftCode>350</AircraftCode>

</Equipment>

<ClassOfService>

  <Code>J</Code>

  <MarketingName>BUSINESS</MarketingName>

  <FareBasisCode>JFFFOWET</FareBasisCode>

</ClassOfService>

<FlightDetail>

  <FlightDistance>
```

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```
<Value>1562</Value>

<UOM>Miles</UOM>

</FlightDistance>

<FlightDuration>

<Value>250</Value>

</FlightDuration>

</FlightDetail>

</FlightSegment>

<FlightSegment SegmentKey="SEG_ADDDXB_004">

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    <Time>21:45:00</Time>

  </Departure>

  <Arrival>

    <AirportCode>DXB</AirportCode>

    <Date>2021-07-21</Date>

    <Time>02:55:00</Time>

    <Terminal>

      <Name>2</Name>

    </Terminal>

  </Arrival>

  <MarketingCarrier>

    <AirlineID>ET</AirlineID>

    <FlightNumber>600</FlightNumber>

  </MarketingCarrier>

  <OperatingCarrier>
```

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```
<AirlineID>ET</AirlineID>

<FlightNumber>600</FlightNumber>

</OperatingCarrier>

<Equipment>

  <AircraftCode>350</AircraftCode>

</Equipment>

<ClassOfService>

  <Code>C</Code>

  <MarketingName>BUSINESS</MarketingName>

  <FareBasisCode>CFFFOWET</FareBasisCode>

</ClassOfService>

<FlightDetail>

  <FlightDistance>

    <Value>1562</Value>

    <UOM>Miles</UOM>

  </FlightDistance>

  <FlightDuration>

    <Value>250</Value>

  </FlightDuration>

</FlightDetail>

</FlightSegment>

<FlightSegment SegmentKey="SEG_ADDDXB_005">

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    <Date>2021-07-20</Date>

    <Time>10:30:00</Time>

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  <Time>15:45:00</Time>

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<Equipment>

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ETHIOPIAN AIRLINES NDC API GUIDE

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ETHIOPIAN AIRLINES NDC API GUIDE

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    </Terminal>

  </Arrival>

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    <Date>2021-07-21</Date>
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  <AirlineID>ET</AirlineID>

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        <Date>2021-07-21</Date>

        <Time>04:30:00</Time>

        <Terminal>

            <Name>2</Name>

        </Terminal>

    </Arrival>

    <MarketingCarrier>

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    <OperatingCarrier>

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  </Flight>

  <Flight FlightKey="FLT002">

    <SegmentReferences OnPoint="ADD" OffPoint="DXB">SEG_ADDDXB_002</SegmentReferences>

  </Flight>

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        <DepartureCode>ADD</DepartureCode>

        <ArrivalCode>DXB</ArrivalCode>

        <FlightReferences>FLT001 FLT002 FLT003 FLT004 FLT005 FLT006 FLT007
FLT008 FLT009 FLT010 FLT011 FLT012</FlightReferences>

    </OriginDestination>

</OriginDestinationList>

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    <ServiceDefinition ServiceDefinitionID="SD_ES">

        <Name>ES</Name>

        <Descriptions>

            <Description>

                <Text>ECONOMY SEMI FLEX</Text>

            </Description>

        </Descriptions>

    </ServiceDefinition>

    <ServiceDefinition ServiceDefinitionID="SD_EF">
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<Descriptions>

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    <Text>ECONOMY FLEX</Text>

  </Description>

</Descriptions>

</ServiceDefinition>

<ServiceDefinition ServiceDefinitionID="SD_CX">

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  <Descriptions>

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    </Description>

  </Descriptions>

</ServiceDefinition>

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  <Name>CD</Name>

  <Descriptions>

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    </Description>

  </Descriptions>

</ServiceDefinition>

</ServiceDefinitionList>

</DataLists>

</AirShoppingRS>
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RESPONSE BODY INFORMATION:

AirShoppingRS	Root node of the request schema
ShoppingResponseID	
Owner	ORA
OffersGroup	Offers collection
AirlineOffers	List of airline offers
Offer	Specific flight with brands
@OfferID	Unique offer identification
@Owner	ORA
TimeLimits	
OfferExpiration	
@Timestamp	Offer expiry time in ISO standard
OfferItem	Specific brand on the flight
@OfferItemID	
TotalPriceDetail	
TotalAmount	
SimpleCurrencyPrice	Total price including taxes
@Code	Currency code
BaseAmount	Base fare value
@Code	Currency code
Taxes	
Total	Tax value
@Code	Currency code
Service	
@ServiceID	Unique service identification
PassengerRefs	Passengers entitled to service
ServiceRef	Ref to Service Definition
ServiceDefinitionRef	Flight associated to service
DataLists	
PassengerList	
Passenger	
@PassengerID	Unique passenger identifier e.g. PAX001
PTC	Passenger type e.g. ADT, CHD,

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	INF
FlightSegmentList	
FlightSegment	Flight segment information
@SegmentKey	Unique segment identification
Departure	
AirportCode	Departure airport e.g. ADD
Date	Departure date. Format YYYY-MM-DD
Time	Departure time. Format HH:MM
Terminal	
Name	Departure airport terminal
Arrival	
AirportCode	Arrival airport e.g. LOS
Date	Arrival date. Format YYYY-MM-DD
Time	Arrival time. Format HH:MM
Terminal	
Name	Arrival airport terminal
MarketingCarrier	Airline selling the ticket
AirlineID	IATA airline code
FlightNumber	Flight number
OperatingCarrier	Airline operating the flight
AirlineID	IATA airline code
FlightNumber	Flight number
Equipment	
AircraftCode	Type of aircraft
ClassOfService	
Code	
MarketingName	Default segment brand
FareBasisCode	
FlightDetail	
FlightDistance	
Value	Flight distance value
UOM	Unit of measurement
FlightDuration	
Value	PT4H10M implies 4 hours and 10 minutes

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FlightList	List of flights
Flight	Single flight with one or more segments
@FlightKey	Unique flight identification
SegmentReferences	Segments associated with flight
OnPoint	Origin city
OffPoint	Destination city
OriginDestinationList	List of flight origin and destination
OriginDestination	
DepartureCode	Departure city
@UOM	Unit of measurement
ArrivalCode	Arrival city
@UOM	Unit of measurement
FlightReferences	Flights associated to this origin destination
ServiceDefinitionList	
ServiceDefinition	
@ServiceDefinitionID	Unique Service Def ID
Name	Brand name of service e.g. EP
Descriptions	List of description text
Description	e.g. ECONOMY PROMO

SHOPPING FOR MULTICITY FLIGHTS

The multicity flight scenario allows you to search from one origin to a destination then to another destination and so on. This scenario is also used to handle return flights i.e. roundtrips.

For example, for a return flight search, you could have ADD to DXB then DXB to ADD. For a non-return flight, you could have for example, ADD to LHR, LHR to DXB and DXB to LOS. Note that each origin-destination, except the first origin-destination, must have its origin as the previous origin-destination's destination.

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REQUEST HEADER:

KEY	VALUE	REQUIRED
Content-Type	application/xml	Yes
Accept	application/xml	Yes
Authorization	Bearer {{access_token}}	Yes

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REQUEST BODY:

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<?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<AirShoppingRQ xmlns="http://www.iata.org/IATA/EDIST/2017.2" Version="2017.2" xmlns
:xsi="http://www.w3.org/2001/XMLSchema-instance">

    <Document>

        <Name>ETHIOPIAN AIRLINES NDC API</Name>

        <ReferenceVersion>1.0</ReferenceVersion>

    </Document>

    <Party>

        <Sender>

            <TravelAgencySender>

                <Name>Ethiopian Airlines Travel Agency</Name>

                <IATA_Number>12312312</IATA_Number>

                <AgencyID Owner="ET">A69039451</AgencyID>

            </TravelAgencySender>

        </Sender>

        <Participants>

            <Participant>

                <AggregatorParticipant SequenceNumber="1">

                    <Name>AAAIT PLC</Name>

                    <AggregatorID>88888888</AggregatorID>

                </AggregatorParticipant>

            </Participant>

        </Participants>

        <Recipient>

            <ORA_Recipient>

                <AirlineID>ET</AirlineID>
```

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</ORA_Recipient>

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</Party>

<CoreQuery>

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        <Date>2021-07-10</Date>

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      </Arrival>

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        <AirportCode>LOS</AirportCode>

        <Date>2021-07-20</Date>

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    </OriginDestination>

    <OriginDestination>

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</Arrival>

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        </CabinType>

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</Preference>

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        <Code>5SDFEX9898</Code>

    </PromotionQualifiers>

</Qualifier>

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            <PTC>ADT</PTC>

            <Individual>

                <GivenName>Jane</GivenName>

                <Surname>Smith</Surname>

            </Individual>

        </Passenger>

    </PassengerList>

</DataLists>
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</Individual>

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    <AccountNumber>1234525525</AccountNumber>

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</Passenger>

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    <PTC>CHD</PTC>

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        <AccountNumber>1234525525</AccountNumber>

    </LoyaltyProgramAccount>

</Passenger>

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    <Individual>

        <GivenName>Jane</GivenName>

        <Surname>sdssvvssdf</Surname>

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3a37bf910b8b" Timestamp="2019-11-15T10:17:15.2948557Z" Version="IATA2017.2"
xmlns="http://www.iata.org/IATA/EDIST/2017.2">

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    <ReferenceVersion>1.0</ReferenceVersion>

  </Document>

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        </TimeLimits>

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            </Taxes>

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```

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    <ServiceRef>SD_ES</ServiceRef>
    <FlightRefs>FLT002</FlightRefs>
</Service>

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    <ServiceRef>SD_ES</ServiceRef>
    <FlightRefs>FLT003</FlightRefs>
</Service>
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    </TotalPriceDetail>

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        <ServiceRef>SD_EF</ServiceRef>

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    </Service>

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<!-- Simplified for brevity -->

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            <TotalAmount>
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rice>
    <SimpleCurrencyPrice Code="ETB">169260</SimpleCurrencyP

    </TotalAmount>

    <BaseAmount Code="ETB">122760</BaseAmount>

    <Taxes>

        <Total Code="ETB">46500</Total>

    </Taxes>

</TotalPriceDetail>

<Service ServiceID="SV_FLT013">

    <PassengerRefs>PX001 PX002 PX005</PassengerRefs>

    <ServiceRef>SD_ES</ServiceRef>

    <FlightRefs>FLT013</FlightRefs>

</Service>

<Service ServiceID="SV_FLT014">

    <PassengerRefs>PX001 PX002 PX005</PassengerRefs>

    <ServiceRef>SD_ES</ServiceRef>

    <FlightRefs>FLT014</FlightRefs>

</Service>

<Service ServiceID="SV_FLT015">

    <PassengerRefs>PX001 PX002 PX005</PassengerRefs>

    <ServiceRef>SD_ES</ServiceRef>

    <FlightRefs>FLT015</FlightRefs>

</Service>

</OfferItem>

<OfferItem OfferItemID="OFFERITEM-6295865508">

    <TotalPriceDetail>

        <TotalAmount>
```

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```
rice>
    <SimpleCurrencyPrice Code="ETB">325950</SimpleCurrencyP

    </TotalAmount>

    <BaseAmount Code="ETB">279450</BaseAmount>

    <Taxes>

        <Total Code="ETB">46500</Total>

    </Taxes>

</TotalPriceDetail>

<Service ServiceID="SV_FLT016">

    <PassengerRefs>PX001 PX002 PX005</PassengerRefs>

    <ServiceRef>SD_EF</ServiceRef>

    <FlightRefs>FLT016</FlightRefs>

</Service>

<Service ServiceID="SV_FLT017">

    <PassengerRefs>PX001 PX002 PX005</PassengerRefs>

    <ServiceRef>SD_EF</ServiceRef>

    <FlightRefs>FLT017</FlightRefs>

</Service>

<Service ServiceID="SV_FLT018">

    <PassengerRefs>PX001 PX002 PX005</PassengerRefs>

    <ServiceRef>SD_EF</ServiceRef>

    <FlightRefs>FLT018</FlightRefs>

</Service>

</OfferItem>

</Offer>

</AirlineOffers>

</OffersGroup>

<!-- Simplified for brevity -->
```

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</AirShoppingRS>

OFFERPRICERQ/RS

The *OfferPriceRQ* schema allows you to get the price breakdown for the selected flights in context of the number of passengers specified in *AirShoppingRQ*. This request must be made after *AirShoppingRQ* request.

PRICE REQUEST FOR SINGLE FLIGHT OFFER

REQUEST HEADER:

KEY	VALUE	REQUIRED
Content-Type	application/xml	Yes
Accept	application/xml	Yes
Authorization	Bearer {{access_token}}	Yes

URL: {{BaseUrl}}/{{relative}}/OfferPrice

REQUEST BODY:

```
<OfferPriceRQ xmlns="http://www.iata.org/IATA/EDIST/2017.2" Version="2017.2"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
```

```
  <Document>
```

```
    <Name>ETHIOPIAN AIRLINES NDC API</Name>
```

```
    <ReferenceVersion>1.0</ReferenceVersion>
```

```
  </Document>
```

```
  <Party>
```

```
    <Sender>
```

```
      <TravelAgencySender>
```

```
        <Name>Appliedline PLC</Name>
```

```
        <IATA_Number>12312312</IATA_Number>
```

```
        <AgencyID Owner="ET">A124567</AgencyID>
```

```
      </TravelAgencySender>
```

```
    </Sender>
```

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```
<Participants>

  <Participant>

    <AggregatorParticipant SequenceNumber="1">

      <Name>AAAIT PLC</Name>

      <AggregatorID>88888888</AggregatorID>

    </AggregatorParticipant>

  </Participant>

</Participants>

<Recipient>

  <ORA_Recipient>

    <AirlineID>ET</AirlineID>

    <Name>ETHIOPIAN AIRLINES</Name>

  </ORA_Recipient>

</Recipient>

</Party>

<Query>

  <!-- One or more Offers matching the OriginDestination trips -->

  <Offer OfferID="OFFERFLT001" Owner="ET" ResponseID="38FEB55RHVZJNM "">

    <!-- All Offer Items belonging to this Offer -->

    <OfferItem OfferItemID="OFFERITEM-0912144420">

      <PassengerRefs>PAX001 PAX002 PAX003</PassengerRefs>

    </OfferItem>

  </Offer>

</Query>

<DataLists>

  <PassengerList>

    <Passenger PassengerID="PAX001">

      <PTC>ADT</PTC>

    </Passenger>

  </PassengerList>

</DataLists>
```

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```

    <Passenger PassengerID="PAX002">
        <PTC>CHD</PTC>
    </Passenger>
    <Passenger PassengerID="PAX003">
        <PTC>ADT</PTC>
    </Passenger>
</PassengerList>
</DataLists>
</OfferPriceRQ>

```

REQUEST BODY INFORMATION:

OfferPriceRQ	Root node of the request schema
Party	Aggregator and OTA information
Sender	
TravelAgencySender	Travel agency involved in the request
Name	Travel agency's official name
IATA_Number	Travel agency's IATA number
AgencyID	Travel agency's Agency ID
Participants	List of aggregators involved in the request
Participant	
AggregatorParticipant	
@SequenceNumber	Unique position in the list e.g. 1, 2, 3
Name	Aggregator's official name
AggregatorID	Aggregator's ID
Recipient	
ORA_Recipient	Offer responsible airline information
AirlineID	IATA Airline code e.g. ET
Name	Ethiopian Airlines

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Query	
Offer	Specific to an OriginDestination
@OfferID	Unique ID e.g. OFFER001
@Owner	ORA e.g. ET
OfferItem	
@OfferItemID	Selected offer item for an OriginDestination
PassengerRefs	Space separated passenger IDs with matching PassengerID in PassengerList e.g. PAX001 PAX002
DataLists	
PassengerList	List of passengers
Passenger	
@PassengerID	Unique passenger identifier e.g. PAX001
PTC	Passenger type e.g. ADT, CHD, INF

RESPONSE BODY:

```
<OfferPriceRS xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" EchoToken="a78d209e-7d01-4cec-8f48-
363c361423e5" Timestamp="2019-11-15T10:18:40.0642533Z" Version="IATA2017.2"
xmlns="http://www.iata.org/IATA/EDIST/2017.2">

  <Document>

    <Name>ETHIOPIAN AIRLINES NDC API</Name>

    <ReferenceVersion>1.0</ReferenceVersion>

  </Document>

  <Success />

  <PricedOffer OfferID="of001" Owner="ET">

    <TimeLimits>

      <OfferExpiration Timestamp="2021-06-29T09:36:04.5514949Z" />

    </TimeLimits>

    <OfferItem OfferItemID="OFOFFERITEM001">
```

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```
<TotalPriceDetail>

  <TotalAmount>

    <SimpleCurrencyPrice Code="ETB">195483</SimpleCurrencyPrice>

  </TotalAmount>

  <BaseAmount Code="ETB">120762</BaseAmount>

  <Taxes>

    <Total Code="ETB">74721</Total>

  </Taxes>

</TotalPriceDetail>

<Service ServiceID="Svc-001">

  <PassengerRefs>PX001 PX002 PX003 PX003 PX004</PassengerRefs>

  <FlightRefs>FLT001</FlightRefs>

</Service>

<Service ServiceID="Svc-002">

  <PassengerRefs>PX001 PX002 PX003 PX003 PX004</PassengerRefs>

  <FlightRefs>FLT002</FlightRefs>

</Service>

</OfferItem>

</PricedOffer>

<DataLists>

  <PassengerList>

    <Passenger PassengerID="PAX001">

      <PTC>ADT</PTC>

    </Passenger>

    <Passenger PassengerID="PAX002">

      <PTC>ADT</PTC>

    </Passenger>

    <Passenger PassengerID="PAX003">
```

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```
<PTC>CHD</PTC>

</Passenger>

</PassengerList>

<FlightSegmentList>

  <FlightSegment SegmentKey="SEG_MANADD_001">

    <Departure>

      <AirportCode>MAN</AirportCode>

      <Date>2021-06-29</Date>

      <Time>18:55:00</Time>

    </Departure>

    <Arrival>

      <AirportCode>ADD</AirportCode>

      <Date>2021-06-30</Date>

      <Time>06:15:00</Time>

      <Terminal>

        <Name>1</Name>

      </Terminal>

    </Arrival>

    <MarketingCarrier>

      <AirlineID>ET</AirlineID>

      <FlightNumber>729</FlightNumber>

    </MarketingCarrier>

    <OperatingCarrier>

      <AirlineID>ET</AirlineID>

      <FlightNumber>729</FlightNumber>

    </OperatingCarrier>

    <Equipment>
```

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```
<AircraftCode>789</AircraftCode>

</Equipment>

<ClassOfService>

  <Code>U</Code>

  <MarketingName>ECONOMY</MarketingName>

  <FareBasisCode>ULOWUK</FareBasisCode>

</ClassOfService>

<FlightDetail>

  <FlightDistance>

    <Value>3821</Value>

    <UOM>Miles</UOM>

  </FlightDistance>

  <FlightDuration>

    <Value>560</Value>

  </FlightDuration>

</FlightDetail>

</FlightSegment>

<FlightSegment SegmentKey="SEG_ADDIAD_002">

  <Departure>

    <AirportCode>ADD</AirportCode>

    <Date>2021-06-30</Date>

    <Time>22:40:00</Time>

  </Departure>

  <Arrival>

    <AirportCode>IAD</AirportCode>

    <Date>2021-07-01</Date>

    <Time>08:40:00</Time>
```

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```
<Terminal>

  <Name>2</Name>

</Terminal>

</Arrival>

<MarketingCarrier>

  <AirlineID>ET</AirlineID>

  <FlightNumber>500</FlightNumber>

</MarketingCarrier>

<OperatingCarrier>

  <AirlineID>ET</AirlineID>

  <FlightNumber>500</FlightNumber>

</OperatingCarrier>

<Equipment>

  <AircraftCode>77L</AircraftCode>

</Equipment>

<ClassOfService>

  <Code>V</Code>

  <MarketingName>ECONOMY</MarketingName>

  <FareBasisCode>VKXOWET</FareBasisCode>

</ClassOfService>

<FlightDetail>

  <FlightDistance>

    <Value>7357</Value>

    <UOM>Miles</UOM>

  </FlightDistance>

  <FlightDuration>

    <Value>1020</Value>
```

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```
        </FlightDuration>

        </FlightDetail>

    </FlightSegment>

</FlightSegmentList>

<FlightList>

    <Flight FlightKey="FLT001">

        <SegmentReferences>SEG_MANADD_001</SegmentReferences>

    </Flight>

    <Flight FlightKey="FLT002">

        <SegmentReferences>SEG_ADDIAD_002</SegmentReferences>

    </Flight>

</FlightList>

<OriginDestinationList>

    <OriginDestination>

        <DepartureCode>MAN</DepartureCode>

        <ArrivalCode>ADD</ArrivalCode>

    </OriginDestination>

    <OriginDestination>

        <DepartureCode>ADD</DepartureCode>

        <ArrivalCode>IAD</ArrivalCode>

    </OriginDestination>

</OriginDestinationList>

<ServiceDefinitionList />

</DataLists>

</OfferPriceRS>
```

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RESPONSE BODY INFORMATION:

OfferPriceRS	Root node of the request schema
@Version	NDC schema version
Document	ORA endpoint information
Name	Endpoint name
ReferenceVersion	Endpoint version
Success	Indicates a success response
ShoppingResponseID	
Owner	ORA
PricedOffer	Collective offers' price
@OfferID	Unique offer price identification
@Owner	ORA
TimeLimits	
OfferExpiration	
@Timestamp	Offer expiry time in ISO standard
OfferItem	
@OfferItemID	
TotalPriceDetail	
TotalAmount	
SimpleCurrencyPrice	Total price including taxes
@Code	Currency code
BaseAmount	Base fare value
@Code	Currency code
Surcharges	Surcharge information
Surcharge	
Total	Surcharge value
@Code	Currency code
Taxes	
Total	Tax value
@Code	Currency code
Service	

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@ServiceID	Unique service identification
PassengerRefs	Passengers entitled to service
ServiceRef	Ref to Service Definition
ServiceDefinitionRef	Flight associated to service
FareDetail	
PassengerRefs	Passengers associated to fare detail
Price	
BaseAmount	Base fare amount
@Code	Currency code
Surcharges	
Surcharge	
Total	Total surcharge value
@Code	Currency code
Taxes	
Total	Total tax value
@Code	Currency code
DataLists	
PassengerList	
Passenger	
@PassengerID	Unique passenger identifier e.g. PAX001
PTC	Passenger type e.g. ADT, CHD, INF
FlightSegmentList	
FlightSegment	Flight segment information
@SegmentKey	Unique segment identification
Departure	
AirportCode	Departure airport e.g. ADD
Date	Departure date. Format YYYY-MM-DD
Time	Departure time. Format HH:MM
Terminal	
Name	Departure airport terminal
Arrival	
AirportCode	Arrival airport e.g. LOS
Date	Arrival date. Format YYYY-MM-DD
Time	Arrival time. Format HH:MM
Terminal	

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Name	Arrival airport terminal
MarketingCarrier	Airline selling the ticket
AirlineID	IATA airline code
FlightNumber	Flight number
OperatingCarrier	Airline operating the flight
AirlineID	IATA airline code
FlightNumber	Flight number
Equipment	
AircraftCode	Type of aircraft
ClassOfService	
Code	
MarketingName	Default segment brand
FareBasisCode	
FlightDetail	
FlightDistance	
Value	Flight distance value
UOM	Unit of measurement
FlightDuration	
Value	PT6H15M implies 6 hours and 15 minutes
FlightList	List of flights
Flight	Single flight with one or more segments
@FlightKey	Unique flight identification
SegmentReferences	Segments associated with flight
OnPoint	Origin city
OffPoint	Destination city
OriginDestinationList	List of flight origin and destination
OriginDestination	
DepartureCode	Departure city
@UOM	Unit of measurement
ArrivalCode	Arrival city
@UOM	Unit of measurement
FlightReferences	Flights associated to this origin destination
ServiceDefinitionList	
ServiceDefinition	

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@ServiceDefinitionID	Unique Service Def ID
Name	Brand name of service e.g. EP
Descriptions	List of description text
Description	e.g. ECONOMY PROMO

ORDER REPRICE: ORDER REPRICE REQUEST

- send the PNR to be reprices on the request. you will get similar response as Order View response

```
<OrderChangeRQ xmlns="http://www.iata.org/IATA/EDIST/2017.2" Version="17.2" xmlns:xsi="http://
/www.w3.org/2001/XMLSchema-instance">
  <Document>
    <Name>Ethiopianairlines NDC </Name>
    <ReferenceVersion>1.0</ReferenceVersion>
  </Document>
  <Party>
    <Sender>
      <TravelAgencySender>
        <Name>Ethiopianairlines TravelAgency</Name>
        <IATA_Number>12121212</IATA_Number>
        <AgencyID Owner="ET">A345345435</AgencyID>
      </TravelAgencySender>
    </Sender>
    <Participants>
      <Participant>
        <AggregatorParticipant SequenceNumber="1">
          <Name>JR TECHNOLOGIES</Name>
          <AggregatorID>88888888</AggregatorID>
        </AggregatorParticipant>
      </Participant>
    </Participants>
  </Party>
  <Query>
    <OrderID Owner="ET">{{OrderId}}</OrderID>
  </Query>
  <DataLists>
    <PassengerList>
      <Passenger PassengerID="PAX001">
        <PTC>ADT</PTC>
        <Individual>
          <GivenName>Jane</GivenName>
          <Surname>Smith</Surname>
        </Individual>
      </Passenger>
    </PassengerList>
  </DataLists>
</OrderChangeRQ>
```

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```
</Individual>
</Passenger>
<Passenger PassengerID="PAX002">
  <PTC>ADT</PTC>
  <Individual>
    <GivenName>Tade</GivenName>
    <Surname>Smith</Surname>
  </Individual>
</Passenger>
</PassengerList>
</DataLists>
</OrderChangeRQ>
```

ORDERCREATERQ/ORDERVIEWRS

- This schema provides support for booking orders as well as handle ticketing of orders. The NDC Order Management Messages supported are
- OrderCreateRQ/OrderViewRS,

The OrderCreateRQ schema allows you to request a specified offer (inventory) to an order to be created and return a view of the held inventory or order. This request is valid after *OfferPriceRQ*.

REQUEST HEADER:

KEY	VALUE	REQUIRED
Content-Type	application/xml	Yes
Accept	application/xml	Yes
Authorization	Bearer {{access_token}}	Yes

REQUEST BODY:

```
<OrderCreateRQ xmlns="http://www.iata.org/IATA/EDIST/2017.2" Version="2017.2" xmlns
:xsi="http://www.w3.org/2001/XMLSchema-instance">
```

```
<Document>
```

```
<Name>ETHIOPIAN AIRLINES NDC API</Name>
```

```
<ReferenceVersion>1.0</ReferenceVersion>
```

```
</Document>
```

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```
<Party>

  <Sender>

    <TravelAgencySender>

      <Name>Ethiopian Airlines Travel Agency</Name>

      <IATA_Number>12312312</IATA_Number>

      <AgencyID Owner="A1">A1</AgencyID>

    </TravelAgencySender>

  </Sender>

  <Participants>

    <Participant>

      <AggregatorParticipant SequenceNumber="1">

        <Name>AAAIT PLC</Name>

        <AggregatorID>88888888</AggregatorID>

      </AggregatorParticipant>

    </Participant>

  </Participants>

  <Recipient>

    <ORA_Recipient>

      <AirlineID>ET</AirlineID>

      <Name>ETHIOPIAN AIRLINES</Name>

    </ORA_Recipient>

  </Recipient>

</Party>

<Query>

  <Order>

    <Offer OfferID="PRICEDOFFER" Owner="ET" ResponseID="{{ReponseId}}">

      <OfferItem OfferItemID="OFFERITEM001">
```

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```
<PassengerRefs>PAX001</PassengerRefs>
</OfferItem>
</Offer>
</Order>
<Payments>
  <Payment>
    <Type>CA</Type>
    <Method>
      <Cash/>
    </Method>
    <Amount Code="ETB">41143</Amount>
    <!-- Use when OTA paying
    -->
    <Payer>
      <ContactInfoRefs>CTC01</ContactInfoRefs>
    </Payer>
  </Payment>
</Payments>
<DataLists>

  <PassengerList>

    <Passenger PassengerID="PAX001">

      <PTC>ADT</PTC>

      <Individual>

        <Birthdate>1988-06-10</Birthdate>

        <Gender>Female</Gender>

        <NameTitle>MRS</NameTitle>

        <GivenName>Jane</GivenName>

        <Surname>Mefsel</Surname>

      </Individual>

      <LoyaltyProgramAccount>

        <AccountNumber>1234525525</AccountNumber>

      </LoyaltyProgramAccount>

      <IdentityDocument>

        <IdentityDocumentNumber>543000123</IdentityDocumentNumber>
```

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```
<IdentityDocumentType>F</IdentityDocumentType>

<IssuingCountryCode>US</IssuingCountryCode>

<CitizenshipCountryCode>US</CitizenshipCountryCode>

<IssueDate>2017-01-17</IssueDate>

<ExpiryDate>2022-01-16</ExpiryDate>

<Birthdate>1988-06-10</Birthdate>

<Birthplace>US</Birthplace>

</IdentityDocument>

<ContactInfoRef>CTC01</ContactInfoRef>

</Passenger>

<Passenger PassengerID="PAX002">

  <PTC>CHD</PTC>

  <Individual>

    <Birthdate>2018-06-10</Birthdate>

    <Gender>Female</Gender>

    <NameTitle>MRS</NameTitle>

    <GivenName>Jasdfdsne</GivenName>

    <Surname>Mefsel</Surname>

  </Individual>

  <LoyaltyProgramAccount>

    <AccountNumber>1234525525</AccountNumber>

  </LoyaltyProgramAccount>

  <IdentityDocument>

    <IdentityDocumentNumber>543000123</IdentityDocumentNumber>

    <IdentityDocumentType>F</IdentityDocumentType>

    <IssuingCountryCode>US</IssuingCountryCode>

    <CitizenshipCountryCode>US</CitizenshipCountryCode>
```

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```
<IssueDate>2017-01-17</IssueDate>

<ExpiryDate>2022-01-16</ExpiryDate>

<Birthdate>1988-06-10</Birthdate>

<Birthplace>US</Birthplace>

</IdentityDocument>

<ContactInfoRef>CTC01</ContactInfoRef>

</Passenger>

<Passenger PassengerID="PAX003">

  <PTC>ADT</PTC>

  <Individual>

    <Birthdate>1996-05-10</Birthdate>

    <Gender>Female</Gender>

    <NameTitle>MRS</NameTitle>

    <GivenName>Jasdassdfdsne</GivenName>

    <Surname>Mefsel</Surname>

  </Individual>

  <LoyaltyProgramAccount>

    <AccountNumber>1234525525</AccountNumber>

  </LoyaltyProgramAccount>

  <IdentityDocument>

    <IdentityDocumentNumber>543000123</IdentityDocumentNumber>

    <IdentityDocumentType>F</IdentityDocumentType>

    <IssuingCountryCode>US</IssuingCountryCode>

    <CitizenshipCountryCode>US</CitizenshipCountryCode>

    <IssueDate>2017-01-17</IssueDate>

    <ExpiryDate>2022-01-16</ExpiryDate>

    <Birthdate>2021-05-10</Birthdate>
```

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```
<Birthplace>US</Birthplace>

</IdentityDocument>

<ContactInfoRef>CTC01</ContactInfoRef>

</Passenger>

</PassengerList>

<ContactList>

  <ContactInformation ContactID="CTC01">

    <PostalAddress>

      <Label>BUSINESS</Label>

      <Street>100 APPLIEDLINE MAIN STREET</Street>

      <Street>BOLE</Street>

      <PostalCode>1000</PostalCode>

      <CityName>ADDIS ABABA</CityName>

      <CountrySubdivisionName>OROMIA</CountrySubdivisionName>

      <CountryName>Mefsel</CountryName>

      <CountryCode>ET</CountryCode>

    </PostalAddress>

    <ContactProvided>

      <EmailAddress>

        <Label>HOME</Label>

        <EmailAddressValue>jane@mail.com</EmailAddressValue>

      </EmailAddress>

      <EmailAddress>

        <Label>WORK</Label>

        <EmailAddressValue>jane.Mefsel@work.com</EmailAddressValue>

      </EmailAddress>

    </ContactProvided>

  </ContactInformation>

</ContactList>
```

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```
</ContactProvided>

<ContactProvided>

    <Phone>

        <Label>MOBILE</Label>

        <CountryDialingCode>251</CountryDialingCode>

        <PhoneNumber>0944123456</PhoneNumber>

    </Phone>

</ContactProvided>

</ContactInformation>

</ContactList>

</DataLists>

</Query>

</OrderCreateRQ>
```

REQUEST BODY INFORMATION:

OrderCreateRQ	Root node of the request schema
Party	Aggregator and OTA information
Sender	
TravelAgencySender	Travel agency involved in the request
Name	Travel agency's official name
IATA_Number	Travel agency's IATA number
AgencyID	Travel agency's Agency ID
Participants	List of aggregators involved in the request
Participant	
AggregatorParticipant	
@SequenceNumber	Unique position in the list e.g. 1, 2, 3
Name	Aggregator's official name

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AggregatorID	Aggregator's ID
Recipient	
ORA_Recipient	Offer responsible airline information
AirlineID	IATA Airline code e.g. ET
Name	Ethiopian Airlines
Query	
Order	
Offer	
@OfferID	Unique ID e.g. OFFER001
@Owner	ORA e.g. ET
OfferItem	
@OfferItemID	OFFERITEM001
PassengerRefs	Space separated passenger IDs with matching PassengerID in PassengerList e.g. PAX001 PAX002 PAX003
Payments	
Payment	
Type	CA
DataLists	
PassengerList	List of passengers
Passenger	
@PassengerID	Unique passenger identifier e.g. PAX001
PTC	Passenger type e.g. ADT, CHD, INF
Individual	
Birthdate	Format YYYY-MM-DD
Gender	Male, Female
NameTitle	MR, MRS, MS, MISS, MASTER, DR, PROF, AMB, SIR
GivenName	First name
MiddleName	Middle name
Surname	Last name or Family name
LoyaltyProgramAccount	
AccountNumber	e.g. Shebamiles number
IdentityDocument	

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IdentityDocumentNumber	Passport number
IdentityDocumentType	F – passport
IssuingCountryCode	2 letter country code of passport e.g. ET, GB
CitizenshipCountryCode	2 letter country code of nationality e.g. ET
IssueDate	Format YYYY-MM-DD
ExpiryDate	Format YYYY-MM-DD
Birthdate	Format YYYY-MM-DD
Birthplace	2 letter country code of birth e.g. ET
ContactInfoRef	Reference to passenger contact information in <i>ContactList</i>
ContactList	Collection of contact information
ContactInformation	
@ContactID	Unique contact ID e.g. CONTACT001
ContactType	PRIMARY PAYMENT – used if passenger is paying
PostalAddress	Address information
Label	Type of address e.g. HOME, WORK
Street	Street 1 0-9 a-z A-Z Maximum of 30 characters
Street	Street 2 0-9 a-z A-Z Maximum of 30 characters
PostalCode	Postal or zip code
CityName	e.g. Addis Ababa
CountrySubdivisionName	State or Region e.g. Oromia, Texas
CountryName	e.g. Ethiopia
CountryCode	2 letter country code of address e.g. ET
ContactProvided	Collection of either emails or

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	phone. Use separate nodes for emails and phones.
EmailAddress	
Label	HOME or WORK
EmailAddressValue	e.g. john.doe@mail.com
Phone	
Label	MOBILE, WORK
CountryDialingCode	Country code <u>without +</u> e.g. 251, 92
PhoneNumber	Number without country code
Individual	Required when the Payment.Payer node is set
GivenName	
MiddleName	
Surname	

ORDERVIEWRS:

RESPONSE BODY:

```
<OrderViewRS xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://www.iata.org/I
ATA/EDIST/2017.2">
```

```
  <Document>
```

```
    <Name>ETHIOPIAN AIRLINES NDC API</Name>
```

```
    <ReferenceVersion>1.0</ReferenceVersion>
```

```
  </Document>
```

```
  <Response>
```

```
    <Order OrderID="KWZHEF">
```

```
      <TimeLimits>
```

```
        <PaymentTimeLimit Timestamp="0001-01-01T00:00:00" />
```

```
      </TimeLimits>
```

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```
<OrderItems>

  <OrderItem OrderItemID="KWZHEF-1">

    <PriceDetail>

      <TotalAmount>

        <SimpleCurrencyPrice Code="ETB">195483</SimpleCurrencyP
rice>

      </TotalAmount>

      <BaseAmount Code="ETB">120762</BaseAmount>

      <Taxes>

        <Total Code="ETB">74721</Total>

      </Taxes>

    </PriceDetail>

    <Service ServiceID="KWZHEF-1-1">

      <PassengerRef>PX001 PX002 PX003 PX003 PX004</PassengerRef>

      <SegmentRef>SEG_MANADD_001</SegmentRef>

    </Service>

    <Service ServiceID="KWZHEF-1-2">

      <PassengerRef>PX001 PX002 PX003 PX003 </PassengerRef>

      <SegmentRef>SEG_ADDIAD_002</SegmentRef>

    </Service>

  </OrderItem>

</OrderItems>

</Order>

<DataLists>

  <PassengerList>

    <Passenger PassengerID="PAX001">

      <PTC>ADT</PTC>
```

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```
<Individual>

  <Birthdate>1988-06-10</Birthdate>

  <Gender>Female</Gender>

  <NameTitle>MRS</NameTitle>

  <GivenName>Jane</GivenName>

  <Surname>Mefsel</Surname>

</Individual>

<LoyaltyProgramAccount>

  <AccountNumber>1234525525</AccountNumber>

</LoyaltyProgramAccount>

<IdentityDocument>

  <IdentityDocumentNumber>543000123</IdentityDocumentNumber>

  <IdentityDocumentType>F</IdentityDocumentType>

  <IssuingCountryCode>US</IssuingCountryCode>

  <CitizenshipCountryCode>US</CitizenshipCountryCode>

  <IssueDate>2017-01-17</IssueDate>

  <ExpiryDate>2022-01-16</ExpiryDate>

  <Birthdate>1988-06-10</Birthdate>

  <Birthplace>US</Birthplace>

</IdentityDocument>

<ContactInfoRef>CTC01</ContactInfoRef>

</Passenger>

<Passenger PassengerID="PAX002">

  <PTC>CHD</PTC>

  <Individual>

    <Birthdate>2018-06-10</Birthdate>

    <Gender>Female</Gender>
```

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```
<NameTitle>MRS</NameTitle>

<GivenName>Jasdfdsne</GivenName>

<Surname>Mefsel</Surname>

</Individual>

<LoyaltyProgramAccount>

  <AccountNumber>1234525525</AccountNumber>

</LoyaltyProgramAccount>

<IdentityDocument>

  <IdentityDocumentNumber>543000123</IdentityDocumentNumber>

  <IdentityDocumentType>F</IdentityDocumentType>

  <IssuingCountryCode>US</IssuingCountryCode>

  <CitizenshipCountryCode>US</CitizenshipCountryCode>

  <IssueDate>2017-01-17</IssueDate>

  <ExpiryDate>2022-01-16</ExpiryDate>

  <Birthdate>1988-06-10</Birthdate>

  <Birthplace>US</Birthplace>

</IdentityDocument>

<ContactInfoRef>CTC01</ContactInfoRef>

</Passenger>

<Passenger PassengerID="PAX003">

  <PTC>INF</PTC>

  <Individual>

    <Birthdate>2021-05-10</Birthdate>

    <Gender>Female</Gender>

    <NameTitle>MRS</NameTitle>

    <GivenName>Jasdasasdfdsne</GivenName>

    <Surname>Mefsel</Surname>
```

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```
</Individual>

<LoyaltyProgramAccount>

  <AccountNumber>1234525525</AccountNumber>

</LoyaltyProgramAccount>

<IdentityDocument>

  <IdentityDocumentNumber>543000123</IdentityDocumentNumber>

  <IdentityDocumentType>F</IdentityDocumentType>

  <IssuingCountryCode>US</IssuingCountryCode>

  <CitizenshipCountryCode>US</CitizenshipCountryCode>

  <IssueDate>2017-01-17</IssueDate>

  <ExpiryDate>2022-01-16</ExpiryDate>

  <Birthdate>2021-05-10</Birthdate>

  <Birthplace>US</Birthplace>

</IdentityDocument>

<ContactInfoRef>CTC01</ContactInfoRef>

</Passenger>

<Passenger PassengerID="PAX003">

  <PTC>ADT</PTC>

  <Individual>

    <Birthdate>1996-05-10</Birthdate>

    <Gender>Female</Gender>

    <NameTitle>MRS</NameTitle>

    <GivenName>Jasdadasdfdsne</GivenName>

    <Surname>Mefsel</Surname>

  </Individual>

  <LoyaltyProgramAccount>

    <AccountNumber>1234525525</AccountNumber>
```

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```
</LoyaltyProgramAccount>

<IdentityDocument>

  <IdentityDocumentNumber>543000123</IdentityDocumentNumber>

  <IdentityDocumentType>F</IdentityDocumentType>

  <IssuingCountryCode>US</IssuingCountryCode>

  <CitizenshipCountryCode>US</CitizenshipCountryCode>

  <IssueDate>2017-01-17</IssueDate>

  <ExpiryDate>2022-01-16</ExpiryDate>

  <Birthdate>2021-05-10</Birthdate>

  <Birthplace>US</Birthplace>

</IdentityDocument>

<ContactInfoRef>CTC01</ContactInfoRef>

</Passenger>

</PassengerList>

<BaggageAllowanceList />

<FlightSegmentList>

  <FlightSegment SegmentKey="SEG_MANADD_001">

    <Departure>

      <AirportCode>MAN</AirportCode>

      <Date>2021-06-29</Date>

      <Time>18:55:00</Time>

    </Departure>

    <Arrival>

      <AirportCode>ADD</AirportCode>

      <Date>2021-06-30</Date>

      <Time>06:15:00</Time>

      <Terminal>
```

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```
<Name>1</Name>

</Terminal>

</Arrival>

<MarketingCarrier>

  <AirlineID>ET</AirlineID>

  <FlightNumber>729</FlightNumber>

</MarketingCarrier>

<OperatingCarrier>

  <AirlineID>ET</AirlineID>

  <FlightNumber>729</FlightNumber>

</OperatingCarrier>

<Equipment>

  <AircraftCode>789</AircraftCode>

</Equipment>

<ClassOfService>

  <Code>U</Code>

  <MarketingName>ECONOMY</MarketingName>

  <FareBasisCode>ULOWUK</FareBasisCode>

</ClassOfService>

<FlightDetail>

  <FlightDistance>

    <Value>3821</Value>

    <UOM>Miles</UOM>

  </FlightDistance>

  <FlightDuration>

    <Value>560</Value>

  </FlightDuration>
```

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```
</FlightDetail>

</FlightSegment>

<FlightSegment SegmentKey="SEG_ADDIAD_002">

  <Departure>

    <AirportCode>ADD</AirportCode>

    <Date>2021-06-30</Date>

    <Time>22:40:00</Time>

  </Departure>

  <Arrival>

    <AirportCode>IAD</AirportCode>

    <Date>2021-07-01</Date>

    <Time>08:40:00</Time>

    <Terminal>

      <Name>2</Name>

    </Terminal>

  </Arrival>

  <MarketingCarrier>

    <AirlineID>ET</AirlineID>

    <FlightNumber>500</FlightNumber>

  </MarketingCarrier>

  <OperatingCarrier>

    <AirlineID>ET</AirlineID>

    <FlightNumber>500</FlightNumber>

  </OperatingCarrier>

  <Equipment>

    <AircraftCode>77L</AircraftCode>

  </Equipment>
```

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```
<ClassOfService>

  <Code>V</Code>

  <MarketingName>ECONOMY</MarketingName>

  <FareBasisCode>VKXOWET</FareBasisCode>

</ClassOfService>

<FlightDetail>

  <FlightDistance>

    <Value>7357</Value>

    <UOM>Miles</UOM>

  </FlightDistance>

  <FlightDuration>

    <Value>1020</Value>

  </FlightDuration>

</FlightDetail>

</FlightSegment>

</FlightSegmentList>

<FlightList>

  <Flight FlightKey="FLT001">

    <SegmentReferences>SEG_MANADD_001</SegmentReferences>

  </Flight>

  <Flight FlightKey="FLT002">

    <SegmentReferences>SEG_ADDIAD_002</SegmentReferences>

  </Flight>

</FlightList>

<OriginDestinationList>

  <OriginDestination>

    <DepartureCode>MAN</DepartureCode>
```

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```
<ArrivalCode>ADD</ArrivalCode>

</OriginDestination>

<OriginDestination>

    <DepartureCode>ADD</DepartureCode>

    <ArrivalCode>IAD</ArrivalCode>

</OriginDestination>

</OriginDestinationList>

</DataLists>

</Response>

</OrderViewRS>
```

RESPONSE BODY INFORMATION:

OrderViewRS	Root node of the request schema
@Version	NDC schema version
Document	ORA endpoint information
Name	Endpoint name
ReferenceVersion	Endpoint version
Success	Indicates a success response
Response	
Order	
@OrderID	PNR e.g. XUY6QD
@Owner	ORA
BookingReferences	
BookingReference	
ID	PNR e.g. XUY6QD
AirlineID	ET
@Name	Ethiopian Airlines
TotalOrderPrice	Total ticket price including taxes

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SimpleCurrencyPrice	Total order price e.g. 107208
@Code	Currency code e.g. USD, GBP, EUR
Payments	
Payment	
Type	CC – CreditCard
Status	
StatusCode	OK
Amount	
SimpleCurrencyPriceCode	Total order price e.g. 107208
@Code	Currency code e.g. ETB
Method	
PaymentCardMethod	Indicates CreditCard payment
CardCode	AX, MC, ...
MaskedCardNumber	e.g. XXXXXXXXXXXX4343
TimeLimits	
PaymentTimeLimit	
@Timestamp	Time limit for ticketing in ISO standard e.g. 2019-02-13T20:58:12.2583646Z
OrderItems	
OrderItem	
@OrderItemID	ORDERITEM001
@Owner	ET
PriceDetail	
TotalAmount	
SimpleCurrencyPrice	Total price including taxes
@Code	Currency code
BaseAmount	Base fare value
@Code	Currency code
Taxes	
Total	Tax value
@Code	Currency code
Service	Service per segment per passenger
@ServiceID	Unique service identification
PassengerRef	Passenger entitled to service
SegmentRef	Flight segment associated to service
TicketDocInfos	Collection of tickets per passenger

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TicketDocInfo	Passenger ticket information
TicketDocument	
TicketDocNbr	Ticket number e.g. 0712121236978
Type	T
NumberofBooklets	No of ticket per segment e.g. 1, 2
ReportingType	Airline
PassengerReference	Reference to a passenger ID e.g. PAX001
DataLists	
PassengerList	
Passenger	
@PassengerID	Unique passenger identifier e.g. PAX001
PTC	Passenger type e.g. ADT, CHD, INF
Individual	
Birthdate	Date of birth
Gender	Male, Female
NameTitle	MR, MRS, MS, MISS, MASTER, DR, PROF, AMB, SIR
GivenName	First name
MiddleName	
Surname	Last name or family name
IdentityDocument	
IdentityDocumentNumber	Passport number
IdentityDocumentType	F – passport
IssuingCountryCode	Passport country code e.g. US
CitizenshipCountryCode	Country code of nationality e.g. ET
ExpiryDate	Passport expiry date. YYYY-MM-DD
Birthdate	Format YYYY-MM-DD
BaggageAllowanceList	Collection of baggage allowance information
BaggageAllowance	Baggage per segment per passenger
@BaggageAllowanceID	Unique ID
BaggageCategory	Checked – indicates checked in baggage
PieceAllowance	
@refs	Passenger reference e.g. PAX001
ApplicableParty	Traveler
TotalQuantity	Number of baggage allowed e.g. 2
PieceMeasurements	Baggage measurement information

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@Quantity	Number of bags per measurement
FlightSegmentList	
FlightSegment	Flight segment information
@SegmentKey	Unique segment identification
Departure	
AirportCode	Departure airport e.g. ADD
Date	Departure date. Format YYYY-MM-DD
Time	Departure time. Format HH:MM
Terminal	
Name	Departure airport terminal
Arrival	
AirportCode	Arrival airport e.g. LOS
Date	Arrival date. Format YYYY-MM-DD
Time	Arrival time. Format HH:MM
Terminal	
Name	Arrival airport terminal
MarketingCarrier	Airline selling the ticket
AirlineID	IATA airline code
FlightNumber	Flight number
OperatingCarrier	Airline operating the flight
AirlineID	IATA airline code
FlightNumber	Flight number
Equipment	
AircraftCode	Type of aircraft
ClassOfService	
Code	
MarketingName	Default segment brand
FareBasisCode	
FlightDetail	
FlightDistance	
Value	Flight distance value
UOM	Unit of measurement
FlightDuration	
Value	PT6H15M implies 6 hours and 15 minutes
FlightList	List of flights
Flight	Single flight with one or more segments

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@FlightKey	Unique flight identification
SegmentReferences	Segments associated with flight
OnPoint	Origin city
OffPoint	Destination city
OriginDestinationList	List of flight origin and destination
OriginDestination	
DepartureCode	Departure city
@UOM	Unit of measurement
ArrivalCode	Arrival city
@UOM	Unit of measurement
FlightReferences	Flights associated to this origin destination

Ticket information is returned in the *TicketDocInfos* node if the payment was processed successfully.

NDC ORDER MANAGEMENT (PAYMENT & TICKETING)

This schema provides support for paying for orders as well as handle ticketing of orders. The message supported is:

- AirDocIssueRQ/OrderViewRS

AIRDOCISSUERQ/ORDERVIEWRS

The AirDocIssueRQ schema allows you to pay for orders and get ticketing documents.

THROUGH TRAVEL AGENCY

In this scenario, Travel agency who has a valid contract with Ethiopian Airlines can create order and generate tickets.

REQUEST HEADER:

KEY	VALUE	REQUIRED
Content-Type	application/xml	Yes
Accept	application/xml	Yes
Authorization	Bearer {{access_token}}	Yes

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REQUEST BODY:

```
<AirDocIssueRQ xmlns="http://www.iata.org/IATA/EDIST/2017.2" Version="2017.2" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

  <Document>

    <Name>ETHIOPIAN AIRLINES NDC API</Name>

    <ReferenceVersion>1.0</ReferenceVersion>

  </Document>

  <Party>

    <Sender>

      <TravelAgencySender>

        <Name>Ethiopian Airlines Travel Agency</Name>

        <IATA_Number>12312312</IATA_Number>

        <AgencyID Owner="A1">A1</AgencyID>

      </TravelAgencySender>

    </Sender>

    <Participants>

      <Participant>

        <AggregatorParticipant SequenceNumber="1">

          <Name>AAAIT PLC</Name>

          <AggregatorID>88888888</AggregatorID>

        </AggregatorParticipant>

      </Participant>

    </Participants>

    <Recipient>

      <ORA_Recipient>

        <AirlineID>ET</AirlineID>

      </ORA_Recipient>

    </Recipient>

  </Party>

</AirDocIssueRQ>
```

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```
<Name>ETHIOPIAN AIRLINES</Name>

</ORA_Recipient>

</Recipient>

</Party>

<Query>

<TicketDocQuantity>3</TicketDocQuantity>

<TicketDocInfo>

  <PassengerReference>PAX001</PassengerReference>

  <OrderReference>

    <OrderID Owner="ET">KWZHEF</OrderID>

    <BookingReference>

      <ID>KWZHEF</ID>

      <AirlineID>ET</AirlineID>

    </BookingReference>

  </OrderReference>

  <Payments>

    <Payment>

      <Type>CA</Type>

      <Method>

        <BankAccount></BankAccount>

      </Method>

      <Amount Code="ETB">107208.00</Amount>

      <Payer>

        <ContactInfoRefs>CTC001</ContactInfoRefs>

      </Payer>

    <Order OrderID="KWZHEF" Owner="ET"></Order>

  </Payment>
```

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```
</Payments>

</TicketDocInfo>

<DataLists>

  <PassengerList>

    <Passenger PassengerID="PAX001">

      <PTC>ADT</PTC>

      <Individual>

        <GivenName>Jane</GivenName>

        <Surname>Mefsel</Surname>

      </Individual>

      <LoyaltyProgramAccount>

        <AccountNumber>1234525525</AccountNumber>

      </LoyaltyProgramAccount>

      <ContactInfoRef>CTC001</ContactInfoRef>

    </Passenger>

    <Passenger PassengerID="PAX001">

      <PTC>CNN</PTC>

      <Individual>

        <GivenName>Janeoisdfds</GivenName>

        <Surname>Mefsdffdsfdssel</Surname>

      </Individual>

      <LoyaltyProgramAccount>

        <AccountNumber>1234525525</AccountNumber>

      </LoyaltyProgramAccount>

      <!--
- Add this node if passenger is paying and ensure it's value is the same with Payer
> ContactInfoRefs node -->
```

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```
</Passenger>

</PassengerList>

<ContactList>

  <ContactInformation ContactID="CTC001">

    <PostalAddress>

      <Label>HOME</Label>

      <Street>s1</Street>

      <Street>s2</Street>

      <PostalCode>12345</PostalCode>

      <CityName>delhi</CityName>

      <CountrySubdivisionName>test</CountrySubdivisionName>

      <CountryName>UNITED STATES</CountryName>

      <CountryCode>US</CountryCode>

    </PostalAddress>

    <ContactProvided>

      <Phone>

        <Label>HOME</Label>

        <CountryDialingCode>123</CountryDialingCode>

        <AreaCode>1234</AreaCode>

        <PhoneNumber>12345</PhoneNumber>

      </Phone>

    </ContactProvided>

    <!-- include the individual node where agency is paying -->

    <Individual>

      <GivenName>TEST</GivenName>

      <Surname>TEST</Surname>

    </Individual>

  </ContactInformation>

</ContactList>
```

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```

        </ContactInformation>

    </ContactList>

</DataLists>

</Query>

</AirDocIssueRQ>

```

REQUEST BODY INFORMATION:

AirDocIssueRQ	Root node of the request schema
Party	Aggregator and OTA information
Sender	
TravelAgencySender	Travel agency involved in the request
Name	Travel agency's official name
IATA_Number	Travel agency's IATA number
AgencyID	Travel agency's Agency ID
Participants	List of aggregators involved in the request
Participant	
AggregatorParticipant	
@SequenceNumber	Unique position in the list e.g. 1, 2, 3
Name	Aggregator's official name
AggregatorID	Aggregator's ID
Recipient	
ORA_Recipient	Offer responsible airline information
AirlineID	IATA Airline code e.g. ET
Name	Ethiopian Airlines
Query	
TicketDocQuantity	Number of tickets
TicketDocInfo	Ticket information for 1 passenger linked with PNR
PassengerReference	PAX001
OrderReference	
@OrderID	PNR e.g. ROBIEX

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@Owner	ORA e.g. ET
BookingReference	
ID	PNR e.g. ROBIEX
AirlineID	ET
Payments	
Payment	
Type	CA – Cash
Amount	Order value e.g. 9800.30
@Code	Order Currency e.g. ETB
Payer	Used if payer is not the traveler e.g. OTA is paying
ContactInfoRefs	Reference <i>ContactID</i> in <i>ContactList</i>
DataLists	
PassengerList	List of passengers. 1 passenger info is enough in this request
Passenger	
@PassengerID	Unique passenger identifier e.g. PAX001
PTC	Passenger type e.g. ADT, CHD, INF
Individual	
Birthdate	Format YYYY-MM-DD
Gender	Male, Female
NameTitle	MR, MRS, MS, MISS, MASTER, DR, PROF, AMB, SIR
GivenName	First name
MiddleName	Middle name
Surname	Last name or Family name
LoyaltyProgramAccount	
AccountNumber	e.g. Shebamiles number
ContactInfoRef	Reference to passenger contact information in <i>ContactList</i>
ContactList	Collection of contact information
ContactInformation	
@ContactID	Unique contact ID e.g. CONTACT001

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ContactType	PRIMARY, PAYMENT – used if passenger is paying
PostalAddress	Address information
Label	Type of address e.g. HOME, WORK
Street	Street 1 0-9 a-z A-Z Maximum of 30 characters
Street	Street 2 0-9 a-z A-Z Maximum of 30 characters
PostalCode	Postal or zip code
CityName	e.g. Addis Ababa
CountrySubdivisionName	State or Region e.g. Oromia, Texas
CountryName	e.g. Ethiopia
CountryCode	2 letter country code of address e.g. ET
ContactProvided	Collection of either emails or phone. Use separate nodes for emails and phones.
EmailAddress	
Label	HOME or WORK
EmailAddressValue	e.g. john.doe@mail.com
Phone	
Label	MOBILE, WORK
CountryDialingCode	Country code <u>without +</u> e.g. 251, 92
PhoneNumber	Number without country code
Individual	Required when the Payment.Payer node is set
GivenName	
MiddleName	
Surname	

PAYMENT VIA BSP

Payments	
Payment	
Type	BSP

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Method	<AccountNumber></AccountNumber>
--------	---------------------------------

```
<Payments>
  <Payment>
    <Type>BSP</Type>
    <Method>
      <AccountNumber></AccountNumber>
    </Method>
    <Amount Code="ETB">107208.00</Amount>
    <Payer>
      <ContactInfoRefs>CTC001</ContactInfoRefs>
    </Payer>
    <Order OrderID="{{OrderId}}" Owner="ET"></Order>
  </Payment>
</Payments>
```

A success response would return an OrderViewRS the above order view respnse.

EXCHANGE

After the booking completed and get ticket number generated. You can exchange the flight segment.

To continue with exchange, it should be the same agency account that the booking has generated and it after authorization. It contains the below flows

- OrderRetrieveRQ/OrderViewRS
- OrderReshopRQ/ OrderReshopRS
- OrderChangeRQ/ OrderViewRS

ORDERRETRIEVERQ/ORDERVIEWRS

In orderRetriveRQ you should pass the below request detail to get the booking detail and orderViewRs the you can continue to the next step which is OrderReshopRQ you should select **OrderItemID** that you want to delete and the specific segment.

```
<OrderRetrieveRQ xmlns="http://www.iata.org/IATA/EDIST/2017.2" Version="17.2" xmlns:xsi="http://www.w
3.org/2001/XMLSchema-instance">
  <Document>
    <Name>Ethiopian Airlines Travel Agency</Name>
    <ReferenceVersion>1.0</ReferenceVersion>
  </Document>
  <Party>
```

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```
<Sender>
  <TravelAgencySender>
    <Name>Zeus Travel</Name>
    <IATA_Number>12312312</IATA_Number>
    <AgencyID Owner="Z9">Z9</AgencyID>
  </TravelAgencySender>
</Sender>
<Participants>
  <Participant>
    <AggregatorParticipant SequenceNumber="1">
      <Name>JR TECHNOLOGIES</Name>
      <AggregatorID>88888888</AggregatorID>
    </AggregatorParticipant>
  </Participant>
</Participants>
</Party>
<Query>
  <Filters>
    <OrderID Owner="ET">{{OrderId}}</OrderID>
  </Filters>
</Query>
</OrderRetrieveRQ>
```

- The response is the same with the above OrderViewRS.

ORDERRESHOPRQ/ORDERRESHOPRS

- In orderReshopRQ you should select orderID, orderItemID and segment which you want to delete and the new segment detail like the below request.

```
<OrderReshopRQ xmlns="http://www.iata.org/IATA/EDIST/2017.2" Version="17.2" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Document>
    <Name>Ethiopian Airlines Travel Agency</Name>

    <ReferenceVersion>1.0</ReferenceVersion>
  </Document>
  <Party>
    <Sender>
      <TravelAgencySender>
```

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```
<Name>Zeus Travel</Name>
<IATA_Number>12312312</IATA_Number>
<AgencyID Owner="Z9">Z9</AgencyID>
</TravelAgencySender>
</Sender>
<Participants>
  <Participant>
    <AggregatorParticipant SequenceNumber="1">
      <Name>JR TECHNOLOGIES</Name>
      <AggregatorID>88888888</AggregatorID>
    </AggregatorParticipant>
  </Participant>
</Participants>
</Party>
<Query>
  <OrderID>{{OrderId}}</OrderID>
  <Reshop>
    <OrderServicing>
      <Add>
        <FlightQuery>
          <OriginDestinations>
            <OriginDestination>
              <Departure>
                <AirportCode>DXB</AirportCode>
                <Date>2021-08-28</Date>
              </Departure>
              <Arrival>
                <AirportCode>ADD</AirportCode>
              </Arrival>
            </OriginDestination>
          </OriginDestinations>
        </FlightQuery>
      </Add>
      <Delete>
        <OrderItem OrderItemID="ORDERITEM001">
          <ServiceRetainRequestIDs>SEG_ADDNBO_001
        </ServiceRetainRequestIDs>
        </OrderItem>
      </Delete>
    </OrderServicing>
  </Reshop>
</Query>
</OrderReshopRQ>
```

- The response is the same with the below in refund orderReshopRS

ORDERCHANGERQ/ ORDERVIEWRS

ETHIOPIAN AIRLINES NDC API GUIDE

```
<OrderChangeRQ xmlns="http://www.iata.org/IATA/EDIST/2017.2" Version="17.2" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Document>
    <Name> Ethiopian Airlines Travel Agency </Name>
    <ReferenceVersion>1.0</ReferenceVersion>
  </Document>
  <Party>
    <Sender>
      <TravelAgencySender>
        <Name>Zeus Travel</Name>
        <IATA_Number>12312312</IATA_Number>
        <AgencyID Owner="Z9">Z9</AgencyID>
      </TravelAgencySender>
    </Sender>
    <Participants>
      <Participant>
        <AggregatorParticipant SequenceNumber="1">
          <Name>JR TECHNOLOGIES</Name>
          <AggregatorID>88888888</AggregatorID>
        </AggregatorParticipant>
      </Participant>
    </Participants>
  </Party>
  <Query>
    <OrderID Owner="Z9">{{OrderId}}</OrderID>
    <OrderServicing>
      <AcceptOffer>
        <Offer OfferID="OFFERFLT001" Owner="Z9" ResponseID="SNE3XJ9NNGD4LE0">
          <TotalOfferPrice Code="USD">300.00</TotalOfferPrice>
          <OfferItem OfferItemID="OFFERITEM-8511625032">
            <PassengerRefs>PAX001 PAX002</PassengerRefs>
          </OfferItem>
        </Offer>
      </AcceptOffer>
      <Delete>
        <OrderItemID>SEG_DXBADD_002</OrderItemID>
      </Delete>
    </OrderServicing>
    <Payments>
      <Payment>
        <Type>CA</Type>
        <Method>
          <Cash/>
        </Method>
        <Amount Code="USD">300.00</Amount>
      </Payment>
    </Payments>
  </Query>
</OrderChangeRQ>
```

ETHIOPIAN AIRLINES NDC API GUIDE

```
</Payments>
</Query>
<DataLists>
  <PassengerList>
    <Passenger PassengerID="Pax01">
      <PTC>ADT</PTC>
      <Individual>
        <GivenName>Jane</GivenName>
        <Surname>Smith</Surname>
      </Individual>
      <LoyaltyProgramAccount>
        <AccountNumber>1234525525</AccountNumber>
      </LoyaltyProgramAccount>
    </Passenger>
    <Passenger PassengerID="Pax02">
      <PTC>ADT</PTC>
      <Individual>
        <GivenName>Tade</GivenName>
        <Surname>Smith</Surname>
      </Individual>
      <LoyaltyProgramAccount>
        <AccountNumber>1234525525</AccountNumber>
      </LoyaltyProgramAccount>
    </Passenger>
  </PassengerList>
</DataLists>
</OrderChangeRQ>
```

REFUND

In this scenario, Travel Agency can Refund the ticket. The NDC Refund supports.

- OrderRetrieveRQ/OrderViewRS
- OrderReshopRQ/ OrderReshopRS
- OrderCancelRQ/ OrderCancelRS

ETHIOPIAN AIRLINES NDC API GUIDE

ORDERRETRIEVERQ/ ORDERVIEWRS

ORDERRETRIEVERQ/RS:

To retrieve pnr detail in orderRetrieveRQ the below request detail has to be sent and but first the user has to be authorization.

OrderRetrieveRQ: Request body

```
<OrderRetrieveRQ xmlns="http://www.iata.org/IATA/EDIST/2017.2" Version="17.2" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

  <Document>

    <Name> Ethiopian Airlines Travel Agency </Name>

    <ReferenceVersion>1.0</ReferenceVersion>

  </Document>

  <Party>

    <Sender>

      <TravelAgencySender>

        <Name>Zeus Travel</Name>

        <IATA_Number>12312312</IATA_Number>

        <AgencyID Owner="Z9">Z9</AgencyID>

      </TravelAgencySender>

    </Sender>

    <Participants>

      <Participant>

        <AggregatorParticipant SequenceNumber="1">

          <Name>JR TECHNOLOGIES</Name>

          <AggregatorID>88888888</AggregatorID>

        </AggregatorParticipant>

      </Participant>

    </Participants>

  </Party>

</OrderRetrieveRQ>
```

ETHIOPIAN AIRLINES NDC API GUIDE

```
</Party>

<Query>

  <Filters>

    <OrderID Owner="Z9">KWZHEF</OrderID>

  </Filters>

</Query>

</OrderRetrieveRQ>
```

ORDERRETRIEVERS: RESPONSE BODY

- The below response are when OrderRetriveRQ authorization and the request is valid after the you get the below reaponse you can continue to OrderReshop by selecting response orderID and OrderItemID.

```
<OrderViewRS xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" TimeStamp="2021-06-
29T09:18:24.7502815Z" Version="IATA2017.2" xmlns="http://www.iata.org/IATA/EDIST/2017.2">
```

```
<Document>

  <Name>ETHIOPIAN AIRLINES NDC API</Name>

  <ReferenceVersion>1.0</ReferenceVersion>

</Document>

<Success />

<Response>

  <Order OrderID="KWZHEF" Owner="ET">

    <BookingReferences>

      <BookingReference>

        <ID>KWZHEF</ID>

        <AirlineID Name="ETHIOPIAN AIRLINES">ET</AirlineID>

      </BookingReference>

    </BookingReferences>

    <TotalOrderPrice>
```

ETHIOPIAN AIRLINES NDC API GUIDE

```
<SimpleCurrencyPrice Code="ETB">183039</SimpleCurrencyPrice>
</TotalOrderPrice>
<Payments>
  <Payment>
    <Type>CA</Type>
    <Status />
    <Amount>
      <SimpleCurrencyPrice Code="ETB">183039</SimpleCurrencyPrice>
    </Amount>
    <Method>
      <CashMethod />
    </Method>
  </Payment>
</Payments>
<OrderItems>
  <OrderItem OrderItemID="ORDERITEM001" Owner="ET">
    <PriceDetail>
      <TotalAmount>
        <SimpleCurrencyPrice Code="ETB">183039</SimpleCurrencyPrice>
      </TotalAmount>
      <BaseAmount Code="ETB">112600</BaseAmount>
      <Taxes>
        <Total Code="ETB">70439</Total>
      </Taxes>
    </PriceDetail>
    <Service ServiceID="SV_1_001">
```

ETHIOPIAN AIRLINES NDC API GUIDE

```
<PassengerRef>PAX001 PAX002 PAX003</PassengerRef>

<SegmentRef>SEG_MANADD_001 SEG_ADDDIAD_001</SegmentRef>

</Service>

</OrderItem>

</OrderItems>

</Order>

<TicketDocInfos>

  <TicketDocInfo>

    <TicketDocument>

      <TicketDocNbr>0712128964680</TicketDocNbr>

      <Type>T</Type>

      <NumberofBooklets>2</NumberofBooklets>

      <ReportingType>Airline</ReportingType>

    </TicketDocument>

    <PassengerReference>PAX001</PassengerReference>

  </TicketDocInfo>

  <TicketDocInfo>

    <TicketDocument>

      <TicketDocNbr>0712128964681</TicketDocNbr>

      <Type>T</Type>

      <NumberofBooklets>2</NumberofBooklets>

      <ReportingType>Airline</ReportingType>

    </TicketDocument>

    <PassengerReference>PAX002</PassengerReference>

  </TicketDocInfo>

  <TicketDocInfo>
```

ETHIOPIAN AIRLINES NDC API GUIDE

```
<TicketDocument>
  <TicketDocNbr>0712128964682</TicketDocNbr>
  <Type>T</Type>
  <NumberofBooklets>2</NumberofBooklets>
  <ReportingType>Airline</ReportingType>
</TicketDocument>

<PassengerReference>PAX003</PassengerReference>
</TicketDocInfo>
</TicketDocInfos>
<DataLists>
  <PassengerList>
    <Passenger PassengerID="PAX001">
      <PTC>ADT</PTC>
      <Individual>
        <Birthdate>2021-05-10</Birthdate>
        <Gender>Female</Gender>
        <GivenName>JANE</GivenName>
        <Surname>MEFSEL</Surname>
      </Individual>
      <IdentityDocument>
        <IdentityDocumentNumber>543000123</IdentityDocumentNumber>
        <IdentityDocumentType>F</IdentityDocumentType>
        <IssuingCountryCode>US</IssuingCountryCode>
        <CitizenshipCountryCode>US</CitizenshipCountryCode>
        <ExpiryDate>2022-01-16</ExpiryDate>
        <Birthdate>2021-05-10</Birthdate>
```

ETHIOPIAN AIRLINES NDC API GUIDE

```
</IdentityDocument>

<ContactInfoRef>CONTACT_PAX_1</ContactInfoRef>

</Passenger>

<Passenger PassengerID="PAX002">

  <PTC>ADT</PTC>

  <Individual>

    <Birthdate>2021-05-10</Birthdate>

    <Gender>Female</Gender>

    <GivenName>JASDASASDFDSNE</GivenName>

    <Surname>MEFSEL</Surname>

  </Individual>

  <IdentityDocument>

    <IdentityDocumentNumber>543000123</IdentityDocumentNumber>

    <IdentityDocumentType>F</IdentityDocumentType>

    <IssuingCountryCode>US</IssuingCountryCode>

    <CitizenshipCountryCode>US</CitizenshipCountryCode>

    <ExpiryDate>2022-01-16</ExpiryDate>

    <Birthdate>2021-05-10</Birthdate>

  </IdentityDocument>

  <ContactInfoRef>CONTACT_PAX_2</ContactInfoRef>

</Passenger>

<Passenger PassengerID="PAX003">

  <PTC>CHD</PTC>

  <Individual>

    <Birthdate>2018-06-10</Birthdate>

    <Gender>Female</Gender>
```

ETHIOPIAN AIRLINES NDC API GUIDE

```
<GivenName>JASDFSNE</GivenName>

<Surname>MEFSEL</Surname>

</Individual>

<IdentityDocument>

  <IdentityDocumentNumber>543000123</IdentityDocumentNumber>

  <IdentityDocumentType>F</IdentityDocumentType>

  <IssuingCountryCode>US</IssuingCountryCode>

  <CitizenshipCountryCode>US</CitizenshipCountryCode>

  <ExpiryDate>2022-01-16</ExpiryDate>

  <Birthdate>2018-06-10</Birthdate>

</IdentityDocument>

<ContactInfoRef>CONTACT_PAX_3</ContactInfoRef>

</Passenger>

</PassengerList>

<ContactList>

  <ContactInformation ContactID="CONTACT_PAX_1">

    <ContactProvided>

      <EmailAddress>

        <EmailAddressValue>JANE@MAIL.COM</EmailAddressValue>

      </EmailAddress>

    </ContactProvided>

    <ContactProvided>

      <Phone>

        <Label>HOME</Label>

        <CountryDialingCode />

        <PhoneNumber>944123456</PhoneNumber>

      </Phone>

    </ContactProvided>

  </ContactInformation>

</ContactList>
```

ETHIOPIAN AIRLINES NDC API GUIDE

```
</Phone>

</ContactProvided>

</ContactInformation>

<ContactInformation ContactID="CONTACT_PAX_2">

  <ContactProvided>

    <EmailAddress>

      <EmailAddressValue>JANE@MAIL.COM</EmailAddressValue>

    </EmailAddress>

  </ContactProvided>

  <ContactProvided>

    <Phone>

      <Label>HOME</Label>

      <CountryDialingCode />

      <PhoneNumber>944123456</PhoneNumber>

    </Phone>

  </ContactProvided>

</ContactInformation>

<ContactInformation ContactID="CONTACT_PAX_3">

  <ContactProvided>

    <EmailAddress>

      <EmailAddressValue>JANE@MAIL.COM</EmailAddressValue>

    </EmailAddress>

  </ContactProvided>

  <ContactProvided>

    <Phone>

      <Label>HOME</Label>
```

ETHIOPIAN AIRLINES NDC API GUIDE

```
<CountryDialingCode />
<PhoneNumber>944123456</PhoneNumber>
</Phone>
</ContactProvided>
</ContactInformation>
</ContactList>
<FlightSegmentList>
  <FlightSegment SegmentKey="SEG_MANADD_001">
    <Departure>
      <AirportCode>MAN</AirportCode>
      <Date>2021-06-29</Date>
      <Time>18:55</Time>
      <Terminal>
        <Name>TERMINAL 1</Name>
      </Terminal>
    </Departure>
    <Arrival>
      <AirportCode>ADD</AirportCode>
      <Date>2021-06-30</Date>
      <Time>06:15</Time>
      <Terminal>
        <Name>TERMINAL 2</Name>
      </Terminal>
    </Arrival>
    <MarketingCarrier>
      <AirlineID>ET</AirlineID>
```

ETHIOPIAN AIRLINES NDC API GUIDE

```
<FlightNumber>729</FlightNumber>

</MarketingCarrier>

<OperatingCarrier>

  <AirlineID>ETHIOPIAN AIRLINES</AirlineID>

  <FlightNumber>729</FlightNumber>

</OperatingCarrier>

<Equipment>

  <AircraftCode>789</AircraftCode>

</Equipment>

<ClassOfService>

  <Code>U</Code>

  <MarketingName>Economy</MarketingName>

  <FareBasisCode>ULOWUK</FareBasisCode>

</ClassOfService>

<FlightDetail>

  <FlightDistance>

    <Value>3826</Value>

    <UOM>Miles</UOM>

  </FlightDistance>

  <FlightDuration>

    <Value>PT9H20M</Value>

  </FlightDuration>

  <Stops>

    <StopQuantity>1</StopQuantity>

    <StopLocations>

      <StopLocation>
```

ETHIOPIAN AIRLINES NDC API GUIDE

```
<AirportCode>BRU</AirportCode>

<ArrivalDate>2021-06-29</ArrivalDate>

<ArrivalTime>21:15</ArrivalTime>

<DepartureDate>2021-06-29</DepartureDate>

<DepartureTime>22:15</DepartureTime>

</StopLocation>

</StopLocations>

</Stops>

</FlightDetail>

</FlightSegment>

<!--!-->

</FlightSegmentList>

<FlightList>

  <Flight FlightKey="FLT001">

    <SegmentReferences OnPoint="MAN" OffPoint="IAD">SEG_MANADD_001 SEG_ADD
IAD_002</SegmentReferences>

    </Flight>

  </FlightList>

  <OriginDestinationList>

    <OriginDestination>

      <DepartureCode UOM="Miles">MAN</DepartureCode>

      <ArrivalCode UOM="Miles">IAD</ArrivalCode>

      <FlightReferences>FLT001</FlightReferences>

    </OriginDestination>

  </OriginDestinationList>

  <InstructionsList>

    <Instruction ListKey="RULE_MAN_ADD">
```

ETHIOPIAN AIRLINES NDC API GUIDE

<FreeFormTextInstruction>

<Remark>

ORDERRESHOPRQ/ ORDERRESHOPRS

ORDERRESHOPRQ: REQUEST BODY

OrderReshopRQ should continue after you get success response from OrderRetrive, the below request are valid request.

<OrderReshopRQ xmlns="http://www.iata.org/IATA/EDIST/2017.2" Version="17.2" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<Document>

<Name> Ethiopian Airlines Travel Agency </Name>

<ReferenceVersion>1.0</ReferenceVersion>

</Document>

<Party>

<Sender>

<TravelAgencySender>

<Name>Zeus Travel</Name>

<IATA_Number>12312312</IATA_Number>

<AgencyID Owner="Z9">Z9</AgencyID>

</TravelAgencySender>

</Sender>

<Participants>

<Participant>

<AggregatorParticipant SequenceNumber="1">

<Name>JR TECHNOLOGIES</Name>

<AggregatorID>88888888</AggregatorID>

ETHIOPIAN AIRLINES NDC API GUIDE

```
</AggregatorParticipant>
</Participant>
</Participants>
</Party>
<Query>
  <OrderID>KWZHEF</OrderID>
  <Reshop>
    <OrderServicing>
      <Delete>
        <OrderItem OrderItemID="KWZHEF"/>
      </Delete>
    </OrderServicing>
  </Reshop>
</Query>
</OrderReshopRQ>
```

ORDERRESHOPRS: RESPONSE BODY

```
<OrderReshopRS xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://www.iata.org/IATA/EDIS
T/2017.2">
  <Document>
    <Name> Ethiopian Airlines Travel Agency </Name>
    <ReferenceVersion>1.0</ReferenceVersion>
  </Document>
  <Success />
  <Response>
    <ReShoppingResponseID>
      <ResponseID>8KSCAOL7GNSQ8FY</ResponseID>
```

ETHIOPIAN AIRLINES NDC API GUIDE

</ReShoppingResponseID>

<ReshopOffers>

<ReshopOffer OfferID="OF-2345111" Owner="ET">

<DeleteOfferItem OfferItemID="OOF111-1-1" OrderItemID="KWZHEF">

<ReshopDifferential>

<OriginalOrderItem>

<Total>

<Amount Code="ETB">183039</Amount>

</Total>

</OriginalOrderItem>

<NewOfferItem>

<Total>

<Amount Code="ETB">137391</Amount>

</Total>

</NewOfferItem>

<ReshopDue>

<ByPassenger>

<Total>

<Amount Code="ETB">45648</Amount>

</Total>

</ByPassenger>

</ReshopDue>

</ReshopDifferential>

</DeleteOfferItem>

</ReshopOffer>

</ReshopOffers>

ETHIOPIAN AIRLINES NDC API GUIDE

<DataLists>

<PassengerList>

<Passenger PassengerID="PAX001">

<PTC>ADT</PTC>

<Individual>

<Birthdate>2021-05-10</Birthdate>

<Gender>Female</Gender>

<GivenName>JANE</GivenName>

<Surname>MEFSEL</Surname>

</Individual>

<IdentityDocument>

<IdentityDocumentNumber>543000123</IdentityDocumentNumber>

<IdentityDocumentType>F</IdentityDocumentType>

<IssuingCountryCode>US</IssuingCountryCode>

<CitizenshipCountryCode>US</CitizenshipCountryCode>

<ExpiryDate>2022-01-16</ExpiryDate>

<Birthdate>2021-05-10</Birthdate>

</IdentityDocument>

<ContactInfoRef>CONTACT_PAX_1</ContactInfoRef>

</Passenger>

<Passenger PassengerID="PAX002">

<PTC>ADT</PTC>

<Individual>

<Birthdate>2021-05-10</Birthdate>

<Gender>Female</Gender>

<GivenName>JASDASASDFDSNE</GivenName>

ETHIOPIAN AIRLINES NDC API GUIDE

```
<Surname>MEFSEL</Surname>
</Individual>
<IdentityDocument>
  <IdentityDocumentNumber>543000123</IdentityDocumentNumber>
  <IdentityDocumentType>F</IdentityDocumentType>
  <IssuingCountryCode>US</IssuingCountryCode>
  <CitizenshipCountryCode>US</CitizenshipCountryCode>
  <ExpiryDate>2022-01-16</ExpiryDate>
  <Birthdate>2021-05-10</Birthdate>
</IdentityDocument>
<ContactInfoRef>CONTACT_PAX_2</ContactInfoRef>
</Passenger>
<Passenger PassengerID="PAX003">
  <PTC>CHD</PTC>
  <Individual>
    <Birthdate>2018-06-10</Birthdate>
    <Gender>Female</Gender>
    <GivenName>JASDFDSNE</GivenName>
    <Surname>MEFSEL</Surname>
  </Individual>
  <IdentityDocument>
    <IdentityDocumentNumber>543000123</IdentityDocumentNumber>
    <IdentityDocumentType>F</IdentityDocumentType>
    <IssuingCountryCode>US</IssuingCountryCode>
    <CitizenshipCountryCode>US</CitizenshipCountryCode>
    <ExpiryDate>2022-01-16</ExpiryDate>
```

ETHIOPIAN AIRLINES NDC API GUIDE

```
<Birthdate>2018-06-10</Birthdate>

</IdentityDocument>

<ContactInfoRef>CONTACT_PAX_3</ContactInfoRef>

</Passenger>

</PassengerList>

<FlightSegmentList>

<FlightSegment SegmentKey="SEG_MANADD_001">

  <Departure>

    <AirportCode>MAN</AirportCode>

    <Date>2021-06-29</Date>

    <Time>18:55</Time>

    <Terminal>

      <Name>TERMINAL 1</Name>

    </Terminal>

  </Departure>

  <Arrival>

    <AirportCode>ADD</AirportCode>

    <Date>2021-06-30</Date>

    <Time>06:15</Time>

    <Terminal>

      <Name>TERMINAL 2</Name>

    </Terminal>

  </Arrival>

  <MarketingCarrier>

    <AirlineID>ET</AirlineID>

    <FlightNumber>729</FlightNumber>
```

ETHIOPIAN AIRLINES NDC API GUIDE

```
</MarketingCarrier>
<OperatingCarrier>
  <AirlineID>ETHIOPIAN AIRLINES</AirlineID>
  <FlightNumber>729</FlightNumber>
</OperatingCarrier>
<Equipment>
  <AircraftCode>789</AircraftCode>
</Equipment>
<ClassOfService>
  <Code>U</Code>
  <MarketingName>Economy</MarketingName>
  <FareBasisCode>ULOWUK</FareBasisCode>
</ClassOfService>
<FlightDetail>
  <FlightDistance>
    <Value>3826</Value>
    <UOM>Miles</UOM>
  </FlightDistance>
  <FlightDuration>
    <Value>PT9H20M</Value>
  </FlightDuration>
  <Stops>
    <StopQuantity>1</StopQuantity>
    <StopLocations>
      <StopLocation>
        <AirportCode>BRU</AirportCode>
```

ETHIOPIAN AIRLINES NDC API GUIDE

```
<ArrivalDate>2021-06-29</ArrivalDate>

<ArrivalTime>21:15</ArrivalTime>

<DepartureDate>2021-06-29</DepartureDate>

<DepartureTime>22:15</DepartureTime>

</StopLocation>

</StopLocations>

</Stops>

</FlightDetail>

</FlightSegment>

<FlightSegment SegmentKey="SEG_ADDIAD_002">

  <Departure>

    <AirportCode>ADD</AirportCode>

    <Date>2021-06-30</Date>

    <Time>22:40</Time>

    <Terminal>

      <Name>2</Name>

    </Terminal>

  </Departure>

  <Arrival>

    <AirportCode>IAD</AirportCode>

    <Date>2021-07-01</Date>

    <Time>08:40</Time>

    <Terminal />

  </Arrival>

  <MarketingCarrier>

    <AirlineID>ET</AirlineID>
```

ETHIOPIAN AIRLINES NDC API GUIDE

```
<FlightNumber>500</FlightNumber>

</MarketingCarrier>

<OperatingCarrier>

  <AirlineID>ETHIOPIAN AIRLINES</AirlineID>

  <FlightNumber>500</FlightNumber>

</OperatingCarrier>

<Equipment>

  <AircraftCode>77L</AircraftCode>

</Equipment>

<ClassOfService>

  <Code>V</Code>

  <MarketingName>Economy</MarketingName>

  <FareBasisCode>VKXOWET</FareBasisCode>

</ClassOfService>

<FlightDetail>

  <FlightDistance>

    <Value>7346</Value>

    <UOM>Miles</UOM>

  </FlightDistance>

  <FlightDuration>

    <Value>PT17H0M</Value>

  </FlightDuration>

  <Stops>

    <StopQuantity>1</StopQuantity>

    <StopLocations>

      <StopLocation>
```

ETHIOPIAN AIRLINES NDC API GUIDE

```
<AirportCode>DUB</AirportCode>

<ArrivalDate>2021-07-01</ArrivalDate>

<ArrivalTime>05:00</ArrivalTime>

<DepartureDate>2021-07-01</DepartureDate>

<DepartureTime>05:45</DepartureTime>

</StopLocation>

</StopLocations>

</Stops>

</FlightDetail>

</FlightSegment>

</FlightSegmentList>

<FlightList>

  <Flight FlightKey="FLT001">

    <SegmentReferences OnPoint="MAN" OffPoint="IAD">SEG_MANADD_001 SEG_ADD
IAD_002</SegmentReferences>

  </Flight>

</FlightList>

<OriginDestinationList>

  <OriginDestination>

    <DepartureCode UOM="Miles">MAN</DepartureCode>

    <ArrivalCode UOM="Miles">IAD</ArrivalCode>

    <FlightReferences>FLT001</FlightReferences>

  </OriginDestination>

</OriginDestinationList>

</DataLists>

</Response>

</OrderReshopRS>
```

ETHIOPIAN AIRLINES NDC API GUIDE

After success repose the next step it orders cancellation.

ORDERCANCELRQ/RS

This cancelation should continue after success response from OrderReshpO RQ and authorization is required.

ORDERCANCERQ: REQUEST BODY

```
<OrderCancelRQ xmlns="http://www.iata.org/IATA/EDIST/2017.2" Version="17.2" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
```

```
<Document>
```

```
<Name> Ethiopian Airlines Travel Agency </Name>
```

```
<ReferenceVersion>1.0</ReferenceVersion>
```

```
</Document>
```

```
<Party>
```

```
<Sender>
```

```
<TravelAgencySender>
```

```
<Name>Zeus Travel</Name>
```

```
<IATA_Number>12312312</IATA_Number>
```

```
<AgencyID Owner="Z9">Z9</AgencyID>
```

```
</TravelAgencySender>
```

```
</Sender>
```

```
<Participants>
```

```
<Participant>
```

```
<AggregatorParticipant SequenceNumber="1">
```

```
<Name>JR TECHNOLOGIES</Name>
```

```
<AggregatorID>88888888</AggregatorID>
```

```
</AggregatorParticipant>
```

```
</Participant>
```

```
</Participants>
```

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```
</Party>
<ExpectedRefundAmount>
  <Total Code="USD">60.00</Total>
</ExpectedRefundAmount>
<Query>
  <Order OrderID="KWZHEF" Owner="ET"/>
</Query>
</OrderCancelRQ>
```

ORDER CANCELRS: RESPONSE BODY

```
<OrderCancelRS xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://www.iata.org/IATA/EDIS
T/2017.2">
  <Document>
    <Name> Ethiopian Airlines Travel Agency </Name>
    <ReferenceVersion>1.0</ReferenceVersion>
  </Document>
  <Success />
  <Response>
    <OrderReference>KWZHEF</OrderReference>
  </Response>
</OrderCancelRS>
```

VOID

This functionality allows online travel agencies to void the ticket issued with in 12 hours.

below are NDC shopping messages for void

- order retrieve
- Void

ETHIOPIAN AIRLINES NDC API GUIDE

KEY	VALUE	REQUIRED
Content-Type	application/xml	Yes
Accept	application/xml	Yes
Authorization	Bearer {{access_token}}	Yes

URL - {{BaseUrl}}/{{relative}}/Void/OrderRetrieve

ORDERRRRETRIVE: REQUEST BODY

```
<OrderRetrieveRQ xmlns="http://www.iata.org/IATA/EDIST/2017.2" Version="17.2" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Document>
    <Name>ZEUS NDC GATEWAY</Name>
    <ReferenceVersion>1.0</ReferenceVersion>
  </Document>
  <Party>
    <Sender>
      <TravelAgencySender>
        <Name>Zeus Travel</Name>
        <IATA_Number>12312312</IATA_Number>
        <AgencyID Owner="Z9">Z9</AgencyID>
      </TravelAgencySender>
    </Sender>
    <Participants>
      <Participant>
        <AggregatorParticipant SequenceNumber="1">
          <Name>JR TECHNOLOGIES</Name>
          <AggregatorID>88888888</AggregatorID>
        </AggregatorParticipant>
      </Participant>
    </Participants>
  </Party>
  <Query>
    <Filters>
      <OrderID Owner="ET">{{OrderId}}</OrderID>
    </Filters>
```

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</Query>
</OrderRetrieveRQ>

ORDER VIEW: RESPONSE BODY

OrderViewRS	Root node of the request schema
@Version	NDC schema version
Document	ORA endpoint information
Name	Endpoint name
ReferenceVersion	Endpoint version
Success	Indicates a success response
Response	
Order	
@OrderID	PNR e.g. XUY6QD
@Owner	ORA
BookingReferences	
BookingReference	
ID	PNR e.g. XUY6QD
AirlineID	ET
@Name	Ethiopian Airlines
TotalOrderPrice	Total ticket price including taxes
SimpleCurrencyPrice	Total order price e.g. 107208
@Code	Currency code e.g. USD, GBP, EUR
Payments	
Payment	
Type	CC – CreditCard
Status	
StatusCode	OK
Amount	
SimpleCurrencyPriceCode	Total order price e.g. 107208
@Code	Currency code e.g. ETB
Method	
PaymentCardMethod	Indicates CreditCard payment
CardCode	AX, MC, ...
MaskedCardNumber	e.g. XXXXXXXXXXXX4343
TimeLimits	
PaymentTimeLimit	
@Timestamp	Time limit for ticketing in ISO standard

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	e.g. 2019-02-13T20:58:12.2583646Z
OrderItems	
OrderItem	
@OrderItemID	ORDERITEM001
@Owner	ET
PriceDetail	
TotalAmount	
SimpleCurrencyPrice	Total price including taxes
@Code	Currency code
BaseAmount	Base fare value
@Code	Currency code
Taxes	
Total	Tax value
@Code	Currency code
Service	Service per segment per passenger
@ServiceID	Unique service identification
PassengerRef	Passenger entitled to service
SegmentRef	Flight segment associated to service
TicketDocInfos	Collection of tickets per passenger
TicketDocInfo	Passenger ticket information
TicketDocument	
TicketDocNbr	Ticket number e.g. 0712121236978
Type	T
NumberOfBooklets	No of ticket per segment e.g. 1, 2
ReportingType	Airline
PassengerReference	Reference to a passenger ID e.g. PAX001
DataLists	
PassengerList	
Passenger	
@PassengerID	Unique passenger identifier e.g. PAX001
PTC	Passenger type e.g. ADT, CHD, INF
Individual	
Birthdate	Date of birth
Gender	Male, Female
NameTitle	MR, MRS, MS, MISS, MASTER, DR, PROF, AMB, SIR

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GivenName	First name
MiddleName	
Surname	Last name or family name
IdentityDocument	
IdentityDocumentNumber	Passport number
IdentityDocumentType	F – passport
IssuingCountryCode	Passport country code e.g. US
CitizenshipCountryCode	Country code of nationality e.g. ET
ExpiryDate	Passport expiry date. YYYY-MM-DD
Birthdate	Format YYYY-MM-DD
BaggageAllowanceList	Collection of baggage allowance information
BaggageAllowance	Baggage per segment per passenger
@BaggageAllowanceID	Unique ID
BaggageCategory	Checked – indicates checked in baggage
PieceAllowance	
@refs	Passenger reference e.g. PAX001
ApplicableParty	Traveler
TotalQuantity	Number of baggage allowed e.g. 2
PieceMeasurements	Baggage measurement information
@Quantity	Number of bags per measurement
FlightSegmentList	
FlightSegment	Flight segment information
@SegmentKey	Unique segment identification
Departure	
AirportCode	Departure airport e.g. ADD
Date	Departure date. Format YYYY-MM-DD
Time	Departure time. Format HH:MM
Terminal	
Name	Departure airport terminal
Arrival	
AirportCode	Arrival airport e.g. LOS
Date	Arrival date. Format YYYY-MM-DD
Time	Arrival time. Format HH:MM
Terminal	
Name	Arrival airport terminal
MarketingCarrier	Airline selling the ticket

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AirlineID	IATA airline code
FlightNumber	Flight number
OperatingCarrier	Airline operating the flight
AirlineID	IATA airline code
FlightNumber	Flight number
Equipment	
AircraftCode	Type of aircraft
ClassOfService	
Code	
MarketingName	Default segment brand
FareBasisCode	
FlightDetail	
FlightDistance	
Value	Flight distance value
UOM	Unit of measurement
FlightDuration	
Value	PT6H15M implies 6 hours and 15 minutes
FlightList	List of flights
Flight	Single flight with one or more segments
@FlightKey	Unique flight identification
SegmentReferences	Segments associated with flight
OnPoint	Origin city
OffPoint	Destination city
OriginDestinationList	List of flight origin and destination
OriginDestination	
DepartureCode	Departure city
@UOM	Unit of measurement
ArrivalCode	Arrival city
@UOM	Unit of measurement
FlightReferences	Flights associated to this origin destination

```

<OrderViewRS xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" TimeStamp="2022-04-
18T09:26:20.88209Z" Version="IATA2017.2" xmlns="http://www.iata.org/IATA/EDIST/
2017.2">
    <Document>

```

ETHIOPIAN AIRLINES NDC API GUIDE

```
<Name>ZEUS NDC GATEWAY</Name>
<ReferenceVersion>1.0</ReferenceVersion>
</Document>
<Success />
<Response>
  <Order OrderID="IPYUGN" Owner="ET">
    <BookingReferences>
      <BookingReference>
        <ID>IPYUGN</ID>
        <AirlineID Name="ETHIOPIAN AIRLINES">ET</AirlineID>
      </BookingReference>
    </BookingReferences>
    <TotalOrderPrice>
      <SimpleCurrencyPrice Code="EUR">197.26</SimpleCurrencyPrice>
    </TotalOrderPrice>
    <Payments>
      <Payment>
        <Type>CA</Type>
        <Status />
        <Amount>
          <SimpleCurrencyPrice Code="EUR">197.26</SimpleCurrencyP
rice>
        </Amount>
        <Method>
          <CashMethod />
        </Method>
      </Payment>
    </Payments>
    <OrderItems>
      <OrderItem OrderItemID="ORDERITEM001" Owner="ET">
        <PriceDetail>
          <TotalAmount>
            <SimpleCurrencyPrice Code="EUR">197.26</SimpleCurre
ncyPrice>
          </TotalAmount>
          <BaseAmount Code="EUR">142.00</BaseAmount>
          <Taxes>
            <Total Code="EUR">55.26</Total>
          </Taxes>
        </PriceDetail>
      </OrderItem>
    </OrderItems>
  </Order>
</Response>
```

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```
        </Taxes>
    </PriceDetail>
    <Service ServiceID="SV_1_001">
        <PassengerRef>PAX001 PAX002</PassengerRef>
        <ServiceRef>SV_EF</ServiceRef>
        <SegmentRef>SEG_ADDBJR_001</SegmentRef>
    </Service>
</OrderItem>
</OrderItems>
</Order>
<TicketDocInfos>
    <TicketDocInfo>
        <TicketDocument>
            <TicketDocNbr>0712132300574</TicketDocNbr>
            <Type>T</Type>
            <NumberofBooklets>2</NumberofBooklets>
            <ReportingType>Airline</ReportingType>
        </TicketDocument>
        <PassengerReference>PAX001</PassengerReference>
    </TicketDocInfo>
    <TicketDocInfo>
        <TicketDocument>
            <TicketDocNbr>0712132300575</TicketDocNbr>
            <Type>T</Type>
            <NumberofBooklets>2</NumberofBooklets>
            <ReportingType>Airline</ReportingType>
        </TicketDocument>
        <PassengerReference>PAX002</PassengerReference>
    </TicketDocInfo>
</TicketDocInfos>
<DataLists>
    <PassengerList>
        <Passenger PassengerID="PAX001">
            <PTC>ADT</PTC>
            <Individual>
                <Birthdate>1988-06-10</Birthdate>
                <Gender>Male</Gender>
                <GivenName>JANE MR</GivenName>
            </Individual>
        </Passenger>
    </PassengerList>
</DataLists>
```

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```
<Surname>SMITH</Surname>
</Individual>
<IdentityDocument>
  <IdentityDocumentNumber>543000123</IdentityDocumentNumb
er>

  <IdentityDocumentType>F</IdentityDocumentType>
  <IssuingCountryCode>US</IssuingCountryCode>
  <CitizenshipCountryCode>US</CitizenshipCountryCode>
  <ExpiryDate>2022-01-16</ExpiryDate>
  <Birthdate>1988-06-10</Birthdate>
  <Birthplace>US</Birthplace>
</IdentityDocument>
<ContactInfoRef>CONTACT_PAX_1</ContactInfoRef>
</Passenger>
<Passenger PassengerID="PAX002">
  <PTC>ADT</PTC>
  <Individual>
    <Birthdate>1988-06-10</Birthdate>
    <Gender>Male</Gender>
    <GivenName>SAWI MR</GivenName>
    <Surname>SAWALE</Surname>
  </Individual>
  <IdentityDocument>
    <IdentityDocumentNumber>543000123</IdentityDocumentNumb
er>

    <IdentityDocumentType>F</IdentityDocumentType>
    <IssuingCountryCode>US</IssuingCountryCode>
    <CitizenshipCountryCode>US</CitizenshipCountryCode>
    <ExpiryDate>2022-01-16</ExpiryDate>
    <Birthdate>1988-06-10</Birthdate>
    <Birthplace>US</Birthplace>
  </IdentityDocument>
  <ContactInfoRef>CONTACT_PAX_2</ContactInfoRef>
</Passenger>
</PassengerList>
<ContactList>
  <ContactInformation ContactID="CONTACT_PAX_1">
    <ContactProvided>
```

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```
<Phone>
  <Label>HOME</Label>
  <CountryDialingCode>FRA</CountryDialingCode>
  <PhoneNumber>944123456</PhoneNumber>
</Phone>
</ContactProvided>
<ContactProvided>
  <EmailAddress>
    <EmailAddressValue>JANE@MAIL.COM</EmailAddressValue>
  </EmailAddress>
</ContactProvided>
</ContactInformation>
<ContactInformation ContactID="CONTACT_PAX_2">
  <ContactProvided>
    <Phone>
      <Label>HOME</Label>
      <CountryDialingCode>FRA</CountryDialingCode>
      <PhoneNumber>944123456</PhoneNumber>
    </Phone>
  </ContactProvided>
</ContactProvided>
  <EmailAddress>
    <EmailAddressValue>JANE@MAIL.COM</EmailAddressValue>
  </EmailAddress>
</ContactProvided>
</ContactInformation>
</ContactList>
<BaggageAllowanceList />
<FlightSegmentList>
  <FlightSegment SegmentKey="SEG_ADDBJR_001">
    <Departure>
      <AirportCode>ADD</AirportCode>
      <Date>2022-05-06</Date>
      <Time>07:30</Time>
      <Terminal />
    </Departure>
```

ETHIOPIAN AIRLINES NDC API GUIDE

```
<Arrival>
  <AirportCode>BJR</AirportCode>
  <Date>2022-05-06</Date>
  <Time>08:30</Time>
  <Terminal />
</Arrival>
<MarketingCarrier>
  <AirlineID>ET</AirlineID>
  <FlightNumber>0126</FlightNumber>
</MarketingCarrier>
<OperatingCarrier>
  <AirlineID>ET</AirlineID>
  <FlightNumber>0126</FlightNumber>
</OperatingCarrier>
<Equipment>
  <AircraftCode>DH8</AircraftCode>
</Equipment>
<ClassOfService>
  <Code>G</Code>
  <MarketingName>ECONOMY</MarketingName>
  <FareBasisCode>GET1</FareBasisCode>
</ClassOfService>
<FlightDetail>
  <FlightDistance>
    <Value>0204</Value>
    <UOM>Miles</UOM>
  </FlightDistance>
  <FlightDuration>
    <Value>PT0H60M</Value>
  </FlightDuration>
</FlightDetail>
</FlightSegment>
</FlightSegmentList>
<FlightList>
  <Flight FlightKey="FLT001">
    <SegmentReferences OnPoint="ADD" OffPoint="BJR">SEG_ADDBJR_
001</SegmentReferences>
  </Flight>
```

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```
</FlightList>
<OriginDestinationList>
  <OriginDestination>
    <DepartureCode UOM="Miles">ADD</DepartureCode>
    <ArrivalCode UOM="Miles">BJR</ArrivalCode>
    <FlightReferences>FLT001</FlightReferences>
  </OriginDestination>
</OriginDestinationList>
<InstructionsList>
</Instruction>
</InstructionsList>
<ServiceDefinitionList>
  <ServiceDefinition ServiceDefinitionID="SV_EF" Owner="ET">
    <Name>EF</Name>
    <Descriptions>
      <Description>
        <Text>ECONOMY FLEX</Text>
      </Description>
    </Descriptions>
  </ServiceDefinition>
</ServiceDefinitionList>
</DataLists>
</Response>
</OrderViewRS>
```

URL - {{BaseUrl}}/{{relative}}/Void/Void

VOID: REQUEST BODY

```
<OrderCancelRQ xmlns="http://www.iata.org/IATA/EDIST/2017.2" Version="17.2" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Document>
    <Name>ZEUS NDC GATEWAY</Name>
    <ReferenceVersion>1.0</ReferenceVersion>
  </Document>
  <Party>
    <Sender>
      <TravelAgencySender>
        <Name>Zeus Travel</Name>
      </TravelAgencySender>
    </Sender>
  </Party>
</OrderCancelRQ>
```

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```
<IATA_Number>12312312</IATA_Number>
  <AgencyID Owner="Z9">Z9</AgencyID>
</TravelAgencySender>
</Sender>
<Participants>
  <Participant>
    <AggregatorParticipant SequenceNumber="1">
      <Name>JR TECHNOLOGIES</Name>
      <AggregatorID>88888888</AggregatorID>
    </AggregatorParticipant>
  </Participant>
</Participants>
</Party>
<Query>
  <Order OrderID="{OrderId}" Owner="ET"/>
</Query>
</OrderCancelRQ>
```

VOID / ORDERC CANCEL: RESPONSE BODY

This void functionality allows cancel the bookin Itinerary and change all the ticket status to VOID

```
<OrderCancelRS xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://www.iata.o
rg/IATA/EDIST/2017.2">
  <Document>
    <Name>ZEUS NDC GATEWAY</Name>
    <ReferenceVersion>1.0</ReferenceVersion>
  </Document>
  <Success />
  <Response>
    <OrderReference>SZYZUE</OrderReference>
  </Response>
</OrderCancelRS>
```

CANCEL

This functionality allows to cancel the booking that doesn't have document / ticket issued. below are NDC messgaes allowed

ETHIOPIAN AIRLINES NDC API GUIDE

- Order retrieve
- air cancel

KEY	VALUE	REQUIRED
Content-Type	application/xml	Yes
Accept	application/xml	Yes
Authorization	Bearer {{access_token}}	Yes

URL - {{BaseUrl}}/{{relative}}/Cancel/OrderRetrieve

ORDER RETRIVE: REQUEST BODY

```
<OrderRetrieveRQ xmlns="http://www.iata.org/IATA/EDIST/2017.2" Version="17.2" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Document>
    <Name>ZEUS NDC GATEWAY</Name>
    <ReferenceVersion>1.0</ReferenceVersion>
  </Document>
  <Party>
    <Sender>
      <TravelAgencySender>
        <Name>Zeus Travel</Name>
        <IATA_Number>12312312</IATA_Number>
        <AgencyID Owner="Z9">Z9</AgencyID>
      </TravelAgencySender>
    </Sender>
    <Participants>
      <Participant>
        <AggregatorParticipant SequenceNumber="1">
          <Name>JR TECHNOLOGIES</Name>
          <AggregatorID>88888888</AggregatorID>
        </AggregatorParticipant>
      </Participant>
    </Participants>
  </Party>
  <Query>
    <Filters>
      <OrderID Owner="ET">{{OrderId}}</OrderID>
    </Filters>
  </Query>
```

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</OrderRetrieveRQ>

ORDER VIEW: RESPONSE BODY

```
<OrderViewRS xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" TimeStamp="2022-04-
21T06:33:00" Version="IATA2017.2" xmlns="http://www.iata.org/IATA/EDIST/2017.2"
>
  <Document>
    <Name>Ethiopianairlines NDC</Name>
    <ReferenceVersion>1.0</ReferenceVersion>
  </Document>
  <Success />
  <Response>
    <Order OrderID="BBWDIT" Owner="ET">
      <BookingReferences>
        <BookingReference>
          <ID>BBWDIT</ID>
          <AirlineID Name="ETHIOPIAN AIRLINES">ET</AirlineID>
        </BookingReference>
      </BookingReferences>
      <TotalOrderPrice>
        <SimpleCurrencyPrice Code="EUR">197.52</SimpleCurrencyPrice>
      </TotalOrderPrice>
      <TimeLimits>
        <PaymentTimeLimit Timestamp="2022-04-21T06:33:00" />
      </TimeLimits>
      <OrderItems>
        <OrderItem OrderItemID="ORDERITEM001" Owner="ET">
          <PriceDetail>
            <TotalAmount>
              <SimpleCurrencyPrice Code="EUR">197.52</SimpleCurre
ncyPrice>
            </TotalAmount>
            <BaseAmount Code="EUR">142.00</BaseAmount>
            <Taxes>
              <Total Code="EUR">55.52</Total>
            </Taxes>
          </PriceDetail>
```

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```
<Service ServiceID="SV_1_001">
  <PassengerRef>PAX001 PAX002</PassengerRef>
  <ServiceRef>SV_EF</ServiceRef>
  <SegmentRef>SEG_ADDBJR_001</SegmentRef>
</Service>
</OrderItem>
</OrderItems>
</Order>
<DataLists>
  <PassengerList>
    <Passenger PassengerID="PAX001">
      <PTC>ADT</PTC>
      <Individual>
        <Birthdate>1988-06-10</Birthdate>
        <Gender>Male</Gender>
        <GivenName>JANE MR</GivenName>
        <Surname>SMITH</Surname>
      </Individual>
      <IdentityDocument>
        <IdentityDocumentNumber>543000123</IdentityDocumentNumb
er>
        <IdentityDocumentType>F</IdentityDocumentType>
        <IssuingCountryCode>US</IssuingCountryCode>
        <CitizenshipCountryCode>US</CitizenshipCountryCode>
        <ExpiryDate>2022-01-16</ExpiryDate>
        <Birthdate>1988-06-10</Birthdate>
        <Birthplace>US</Birthplace>
      </IdentityDocument>
      <ContactInfoRef>CONTACT_PAX_1</ContactInfoRef>
    </Passenger>
    <Passenger PassengerID="PAX002">
      <PTC>ADT</PTC>
      <Individual>
        <Birthdate>1988-06-10</Birthdate>
        <Gender>Male</Gender>
        <GivenName>SAWI MR</GivenName>
        <Surname>SAWALE</Surname>
      </Individual>
```

ETHIOPIAN AIRLINES NDC API GUIDE

```
<IdentityDocument>
  <IdentityDocumentNumber>543000123</IdentityDocumentNumb
er>

  <IdentityDocumentType>F</IdentityDocumentType>
  <IssuingCountryCode>US</IssuingCountryCode>
  <CitizenshipCountryCode>US</CitizenshipCountryCode>
  <ExpiryDate>2022-01-16</ExpiryDate>
  <Birthdate>1988-06-10</Birthdate>
  <Birthplace>US</Birthplace>
</IdentityDocument>
  <ContactInfoRef>CONTACT_PAX_2</ContactInfoRef>
</Passenger>
</PassengerList>
<ContactList>
  <ContactInformation ContactID="CONTACT_PAX_1">
    <ContactProvided>
      <Phone>
        <Label>HOME</Label>
        <CountryDialingCode>FRA</CountryDialingCode>
        <PhoneNumber>944123456</PhoneNumber>
      </Phone>
    </ContactProvided>
    <ContactProvided>
      <EmailAddress>
        <EmailAddressValue>JANE@MAIL.COM</EmailAddressValue
>

      </EmailAddress>
    </ContactProvided>
  </ContactInformation>
  <ContactInformation ContactID="CONTACT_PAX_2">
    <ContactProvided>
      <Phone>
        <Label>HOME</Label>
        <CountryDialingCode>FRA</CountryDialingCode>
        <PhoneNumber>944123456</PhoneNumber>
      </Phone>
    </ContactProvided>
    <ContactProvided>
```

ETHIOPIAN AIRLINES NDC API GUIDE

```
<EmailAddress>
  <EmailAddressValue>JANE@MAIL.COM</EmailAddressValue>
</EmailAddress>
</ContactProvided>
</ContactInformation>
</ContactList>
<BaggageAllowanceList />
<FlightSegmentList>
  <FlightSegment SegmentKey="SEG_ADDBJR_001">
    <Departure>
      <AirportCode>ADD</AirportCode>
      <Date>2022-05-06</Date>
      <Time>07:30</Time>
      <Terminal />
    </Departure>
    <Arrival>
      <AirportCode>BJR</AirportCode>
      <Date>2022-05-06</Date>
      <Time>08:30</Time>
      <Terminal />
    </Arrival>
    <MarketingCarrier>
      <AirlineID>ET</AirlineID>
      <FlightNumber>0126</FlightNumber>
    </MarketingCarrier>
    <OperatingCarrier>
      <AirlineID>ET</AirlineID>
      <FlightNumber>0126</FlightNumber>
    </OperatingCarrier>
    <Equipment>
      <AircraftCode>DH8</AircraftCode>
    </Equipment>
    <ClassOfService>
      <Code>G</Code>
      <MarketingName>ECONOMY</MarketingName>
      <FareBasisCode>GET1</FareBasisCode>
    </ClassOfService>
  </FlightSegment>
</FlightSegmentList>
```

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```
<FlightDetail>
  <FlightDistance>
    <Value>0204</Value>
    <UOM>Miles</UOM>
  </FlightDistance>
  <FlightDuration>
    <Value>PT0H60M</Value>
  </FlightDuration>
</FlightDetail>
</FlightSegment>
</FlightSegmentList>
<FlightList>
  <Flight FlightKey="FLT001">
    <SegmentReferences OnPoint="ADD" OffPoint="BJR">SEG_ADDBJR_
001</SegmentReferences>
  </Flight>
</FlightList>
<OriginDestinationList>
  <OriginDestination>
    <DepartureCode UOM="Miles">ADD</DepartureCode>
    <ArrivalCode UOM="Miles">BJR</ArrivalCode>
    <FlightReferences>FLT001</FlightReferences>
  </OriginDestination>
</OriginDestinationList>
<ServiceDefinitionList>
  <ServiceDefinition ServiceDefinitionID="SV_EF" Owner="ET">
    <Name>EF</Name>
    <Descriptions>
      <Description>
        <Text>ECONOMY FLEX</Text>
      </Description>
    </Descriptions>
  </ServiceDefinition>
</ServiceDefinitionList>
</DataLists>
</Response>
</OrderViewRS>
```

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URL - `{{BaseUrl}}/{{relative}}/Cancel/CancelPnr`

ORDER CANCEL: REQUEST BODY

This request cancels the in ticketed PNR itinerary

KEY	VALUE	REQUIRED
Content-Type	application/xml	Yes
Accept	application/xml	Yes
Authorization	Bearer {{access_token}}	Yes

```
<OrderCancelRQ xmlns="http://www.iata.org/IATA/EDIST/2017.2" Version="17.2" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Document>
    <Name>ZEUS NDC GATEWAY</Name>
    <ReferenceVersion>1.0</ReferenceVersion>
  </Document>
  <Party>
    <Sender>
      <TravelAgencySender>
        <Name>Zeus Travel</Name>
        <IATA_Number>12312312</IATA_Number>
        <AgencyID Owner="Z9">Z9</AgencyID>
      </TravelAgencySender>
    </Sender>
    <Participants>
      <Participant>
        <AggregatorParticipant SequenceNumber="1">
          <Name>JR TECHNOLOGIES</Name>
          <AggregatorID>88888888</AggregatorID>
        </AggregatorParticipant>
      </Participant>
    </Participants>
  </Party>
</Query>
```

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```
<Order OrderID="{{OrderId}}" Owner="ET"/>
</Query>
</OrderCancelRQ>
```

ORDER CANCEL: RESPONSE BODY

```
<OrderCancelRS xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" Version="IATA2017.2" xml
ns="http://www.iata.org/IATA/EDIST/2017.2">
  <Document>
    <Name>ZEUS NDC GATEWAY</Name>
    <ReferenceVersion>1.0</ReferenceVersion>
  </Document>
  <Success />
  <Response>
    <OrderReference>BBWDIT</OrderReference>
  </Response>
</OrderCancelRS>
```

ORDER RULE

This NDC feature allows to see the rule for specific Order. allowable NDC messages are OrderRuleRQ and OrderRuleRS

KEY	VALUE	REQUIRED
Content-Type	application/xml	Yes
Accept	application/xml	Yes
Authorization	Bearer {{access_token}}	Yes

URL - {{BaseUrl}}/{{relative}}/OrderRule/OrderRule

ORDER RULE: REQUEST BODY

```
<OrderRulesRQ EchoToken="{{guid}}" TimeStamp="2019-02-
13T20:58:12.258364Z" Version="IATA2017.2"
  xmlns="http://www.iata.org/IATA/EDIST/2017.2">
```

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```

<Document>
  <Name>ETHIOPIAN AIRLINES NDC API</Name>
  <ReferenceVersion>1.0</ReferenceVersion>
</Document>
<Party>
  <Sender>
    <TravelAgencySender>
      <Name>Appliedline Travel</Name>
      <IATA_Number>12312312</IATA_Number>
      <AgencyID Owner="ET">A1</AgencyID>
    </TravelAgencySender>
  </Sender>
  <Participants>
    <Participant>
      <AggregatorParticipant SequenceNumber="1">
        <Name>AA Advanced Information Technology PLC</Name>
        <AggregatorID>88888888</AggregatorID>
      </AggregatorParticipant>
    </Participant>
  </Participants>
</Party>
<Query>
  <OrderID Owner="ET">{{OrderId}}</OrderID>
</Query>
</OrderRulesRQ>

```

Request body information

Order Rule	Root node of the request schema
Party	Aggregator and OTA information
Sender	
TravelAgencySender	Travel agency involved in the request
Name	Travel agency's official name
IATA_Number	Travel agency's IATA number
AgencyID	Travel agency's Agency ID
Participants	List of aggregators involved in the request
Participant	
AggregatorParticipant	

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@SequenceNumber	Unique position in the list e.g. 1, 2, 3
Name	Aggregator's official name
AggregatorID	Aggregator's ID
Recipient	
ORA_Recipient	Offer responsible airline information
AirlineID	IATA Airline code e.g. ET
Name	Ethiopian Airlines
Query	

ORDER RULE: RESPONSE BODY

```
<OrderRulesRS xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://www.iata.o
rg/IATA/EDIST/2017.2">
  <Document>
    <Name>ETHIOPIAN AIRLINES NDC API</Name>
    <ReferenceVersion>1.0</ReferenceVersion>
  </Document>
  <Success />
  <Response>
    <OrderRules>
      <ApplicableFeeRemarks>
        <Remark>SEG_ADDBJR_001(***)RULE APPLICATION AND OTHER CONDITION
S (50)***NOTE - THE FOLLOWING TEXT IS INFORMATIONAL AND NOT
VALIDATED FOR AUTOPRICING.
FARES WITHIN ETHIOPIA
APPLICATION
CLASS OF SERVICE
THESE FARES APPLY FOR BUSINESS/ECONOMY CLASS
SERVICE.
TYPES OF TRANSPORTATION
THIS RULE GOVERNS ONE-WAY AND ROUND-TRIP FARES.
FARES GOVERNED BY THIS RULE CAN BE USED TO CREATE
ONE-WAY/ROUND-TRIP/CIRCLE-TRIP/OPEN-JAW JOURNEYS.</Remark>
        <Remark>SEG_ADDBJR_001(***)ELIGIBILITY (01)***NO ELIGIBILITY RE
QUIREMENTS APPLY.</Remark>
        <Remark>SEG_ADDBJR_001(***)DAY/TIME (02)***NO DAY/TIME TRAVEL R
ESTRICTIONS APPLY.</Remark>
```

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<Remark>SEG_ADDBJR_001(***)SEASONALITY (03)***NO SEASONAL TRAVEL RESTRICTIONS APPLY.</Remark>

<Remark>SEG_ADDBJR_001(***)FLIGHT APPLICATION (04)***THE FARE COMPONENT MUST NOT BE ON ONE OR MORE OF THE FOLLOWING
2J FLIGHTS 1535 THROUGH 1547
2J FLIGHTS 2520 THROUGH 4730
AT FLIGHTS 9000 THROUGH 9999
BP FLIGHTS 8255 THROUGH 8258
HF FLIGHTS 001 THROUGH 99
HM FLIGHTS 5000 THROUGH 6999
KP FLIGHTS 2000 THROUGH 9999
MK FLIGHTS 947 THROUGH 950
MS FLIGHTS 8000 THROUGH 9999
PW FLIGHTS 4000 THROUGH 6999
SA FLIGHTS 2000 THROUGH 2999
SA FLIGHTS 7000 THROUGH 7189
SA FLIGHTS 7205 THROUGH 7950
SW FLIGHTS 2000 THROUGH 9999
TM FLIGHT 740
TM FLIGHT 741

PER THE US D.O.T RULE FOR TICKETS PURCHASED
IN THE USA FULL REFUND WITHOUT PENALTY IS
PERMITTED IF REQUEST IS MADE WITHIN 24 HOURS OF
TICKET ISSUANCE

PENALTY WAIVER FOR REFUND

1.PER THE BRAZILIAN LEGISLATION FOR TICKETS
PURCHASED IN THE BRAZIL FULL REFUND WITHOUT
PENALTY IS PERMITTED IF REQUEST IS MADE WITHIN 24
HOURS OF TICKET ISSUANCE ON GDS.

2.PER THE BRAZILIAN LEGISLATION FOR TICKETS
PURCHASED IN THE BRAZIL FULL REFUND WITHOUT
PENALTY IS PERMITTED IF REQUEST IS MADE WITHIN 7
DAYS OF TICKET ISSUANCE VIA ANY ELECTRONIC
CHANNELS SUCH AS OTAS/PHONES/EMAIL/MOBILE/WEB.</Remark>

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<Remark>SEG_ADDBJR_001(***)HIP/MILEAGE EXCEPTIONS (17)***THE HIGHER INTERMEDIATE POINT RULE DOES NOT APPLY FOR CONNECTIONS.

AND - THE HIGHER INTERMEDIATE POINT RULE DOES NOT APPLY FOR STOPOVERS.</Remark>

<Remark>SEG_ADDBJR_001(***)TICKET ENDORSEMENTS (18)***TICKET ENDORSEMENT NOT REQUIRED.</Remark>

<Remark>SEG_ADDBJR_001(***)CHILDREN DISCOUNTS (19)***FARE RULE CNN/ACCOMPANIED CHILD PSGR UNDER 12 - CHARGE 75 PERCENT OF THE FARE.

TICKET DESIGNATOR - CH.

OR - INS/INFANT WITH A SEAT PSGR UNDER 2 - CHARGE 75 PERCENT OF THE FARE.

OR - INF/INFANT WITHOUT A SEAT PSGR UNDER 2 - CHARGE 10 PERCENT OF THE FARE.

GENERAL RULE - APPLY UNLESS OTHERWISE SPECIFIED CNN/ACCOMPANIED CHILD PSGR UNDER 12 - CHARGE 75 PERCENT OF THE FARE.

TICKETING CODE - BASE FARE CODE PLUS CH.

NOTE - TEXT BELOW NOT VALIDATED FOR AUTOPRICING.

CHILDREN OVER 2 AND UNDER 5 SHOULD TRAVEL WITH AN ADULT.

--

CHILDREN OVER 2 AND UNDER 5 WILL PAY 100 PERCENT OF THE FARE IF COMPANY ESCORT IS REQUESTED.

THE ESCORT WILL PAY ONE WAY FARE FOR ROUND TRIP TICKET.

OR - INS/INFANT WITH A SEAT PSGR UNDER 2 - CHARGE 75 PERCENT OF THE FARE.

TICKETING CODE - BASE FARE CODE PLUS CH.

MUST BE ACCOMPANIED ON ALL FLIGHTS IN THE SAME COMPARTMENT BY ADULT PSGR 12 OR OLDER.

OR - 1ST INF/INFANT WITHOUT A SEAT PSGR UNDER 2 - CHARGE 10 PERCENT OF THE FARE.

TICKETING CODE - BASE FARE CODE PLUS IN.

MUST BE ACCOMPANIED ON ALL FLIGHTS IN THE SAME COMPARTMENT BY ADULT PSGR 12 OR OLDER.</Remark>

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```
<Remark>SEG_ADDBJR_001(***)TOUR CONDUCTOR DISCOUNTS (20)***NO D
ISCOUNTS FOR TOUR CONDUCTORS.</Remark>
<Remark>SEG_ADDBJR_001(***)AGENT DISCOUNTS (21)***NO DISCOUNTS
FOR SALE AGENTS.</Remark>
<Remark>SEG_ADDBJR_001(***)ALL OTHER DISCOUNTS (22)***NO DISCOU
NTS FOR OTHERS.</Remark>
<Remark>SEG_ADDBJR_001(***)MISCELLANEOUS PROVISIONS (23)***NO P
ROVISIONS APPLY.</Remark>
<Remark>SEG_ADDBJR_001(***)FARE BY RULE (25)***NOT APPLICABLE.<
/Remark>
<Remark>SEG_ADDBJR_001(***)GROUPS (26)***NO GROUP PROVISIONS AP
PLY.</Remark>
<Remark>SEG_ADDBJR_001(***)TOURS (27)***NO TOUR PROVISIONS APPL
Y.</Remark>
<Remark>SEG_ADDBJR_001(***)VISIT ANOTHER COUNTRY (28)***NO VISI
T ANOTHER COUNTRY PROVISIONS APPLY.</Remark>
<Remark>SEG_ADDBJR_001(***)DEPOSITS (29)***NO DEPOSIT PROVISION
S APPLY.</Remark>
<Remark>SEG_ADDBJR_001(***)VOLUNTARY CHANGES (31)***ENTER RD*31
OR RD†LINE NUM†*31 FOR VOLUNTARY CHGS.</Remark>
<Remark>SEG_ADDBJR_001(***)VOLUNTARY REFUNDS (33)***CHECK CATEG
ORY 16 OR CONTACT CARRIER FOR DETAILS.</Remark>
<Remark>SEG_ADDBJR_001(***)NEGOTIATED FARES (35)***NOT APPLICAB
LE.</Remark>
<Remark>SEG_ADDBJR_001(***)INTERNATIONAL CONSTRUCTION (IC)***NO
T A CONSTRUCTED FARE</Remark>
</ApplicableFeeRemarks>
</OrderRules>
</Response>
</OrderRulesRS>
```

TRAVEL DOC UPDATE

This NDC feature allows to add / Update travel document information. the ndc messages applicable are

- Order revive
- order change

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for the order change request we need to have the passenger name found on order view response and passenger ID for which the information needed to be amended

```
<Individual>
<GivenName>SAWI MR</GivenName>
<Surname>SAWALE</Surname>
</Individual>
```

KEY	VALUE	REQUIRED
Content-Type	application/xml	Yes
Accept	application/xml	Yes
Authorization	Bearer {{access_token}}	Yes

URL - {{BaseUrl}}/{{relative}}/FreeMeal/OrderDetailRetrieve

ORDER RETRIVE: REQUEST BODY

you can find the order retrieve from any previous requests

ORDER VIEW: RESPONSE BODY

you can find the order view response from any previous responses

URL: {{BaseUrl}}/{{relative}}/ADD/UpdateIdentityDoc /ADD/UpdateIdentityDoc

ORDER CHANHE: ORDER CHANGE REQUEST BODY [ADD/ UPDATE TRAVELDOC]

```
<OrderChangeRQ xmlns="http://www.iata.org/IATA/EDIST/2017.2" Version="17.2" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Document>
    <Name>Ethiopianairlines NDC </Name>
    <ReferenceVersion>1.0</ReferenceVersion>
  </Document>
  <Party>
    <Sender>
      <TravelAgencySender>
        <Name>Ethiopianairlines TravelAgency</Name>
        <IATA_Number>12121212</IATA_Number>
        <AgencyID Owner="ET">A345345435</AgencyID>
      </TravelAgencySender>
    </Sender>
  </Party>
</OrderChangeRQ>
```

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```
</Sender>
<Participants>
  <Participant>
    <AggregatorParticipant SequenceNumber="1">
      <Name>JR TECHNOLOGIES</Name>
      <AggregatorID>88888888</AggregatorID>
    </AggregatorParticipant>
  </Participant>
</Participants>
</Party>
<Query>
  <OrderID Owner="ET">{{OrderId}}</OrderID>
  <PassengerServicing>
    <Previous PassengerID="PAX002">
      <Individual>
        <GivenName>Jane MRS</GivenName>
        <Surname>Smith</Surname>
      </Individual>
      <IdentityDocument>
        <!--Passport (DOCS)details-->
        <IdentityDocumentNumber>012345678</IdentityDocumentNumber>
        <IdentityDocumentType>PT</IdentityDocumentType>
        <IssuingCountryCode>ET</IssuingCountryCode>
        <CitizenshipCountryCode>ET</CitizenshipCountryCode>
        <ResidenceCountryCode>IND</ResidenceCountryCode>
        <ExpiryDate>2022-05-06</ExpiryDate>
        <BirthDate>1985-08-05</BirthDate>
        <BirthdateSpecified>true</BirthdateSpecified>
        <Gender>Male</Gender>
        <Visa>
          <!--Green Card OR Visa Details-->
          <VisaNumber>121212121</VisaNumber>
          <VisaType>GC</VisaType>
        </Visa>
      </IdentityDocument>
      <ActionType>Delete</ActionType>
    </Previous>
    <New PassengerID="PAX002">
```

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```
<Individual>
  <GivenName>SAWI MR</GivenName>
  <Surname>SAWALE</Surname>
</Individual>
<IdentityDocument>
  <!--Passport (DOCS)details-->
  <IdentityDocumentNumber>012345678</IdentityDocumentNumber>
  <IdentityDocumentType>P</IdentityDocumentType>
  <IssuingCountryCode>ET</IssuingCountryCode>
  <CitizenshipCountryCode>ET</CitizenshipCountryCode>
  <ExpiryDate>2025-05-06</ExpiryDate>
  <BirthDate>1994-08-05</BirthDate>
  <BirthdateSpecified>true</BirthdateSpecified>
  <Gender>Male</Gender>
  <Visa>
    <!--Green Card OR Visa Details-->
    <VisaNumber>121212121</VisaNumber>
    <VisaType>GC</VisaType>
  </Visa>
</IdentityDocument>
<IdentityDocument>
  <!--Passenger's Redress Number-->
  <IdentityDocumentNumber>XYZ123456</IdentityDocumentNumber>
  <IdentityDocumentType>AEA</IdentityDocumentType>
</IdentityDocument>
<ActionType>Add</ActionType>
</New>
</PassengerServicing>
</Query>
<DataLists>
  <PassengerList>
    <Passenger PassengerID="PAX001">
      <PTC>ADT</PTC>
      <Individual>
        <GivenName>Jane</GivenName>
        <Surname>Smith</Surname>
      </Individual>
      <LoyaltyProgramAccount>
```

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```
<AccountNumber>1234525525</AccountNumber>
</LoyaltyProgramAccount>
</Passenger>
<Passenger PassengerID="PAX002">
  <PTC>ADT</PTC>
  <Individual>
    <GivenName>Tade</GivenName>
    <Surname>Smith</Surname>
  </Individual>
  <LoyaltyProgramAccount>
    <AccountNumber>1234525525</AccountNumber>
  </LoyaltyProgramAccount>
</Passenger>
</PassengerList>
</DataLists>
</OrderChangeRQ>
```

ORDER VIEW: ORDER CHANGE RESPONSE BODY

Here we have changed the Issuing country and citizenship for PAX002 to US

```
<OrderViewRS xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" Timestamp="2022-04-
19T11:43:52.9115833Z" Version="IATA2017.2" xmlns="http://www.iata.org/IATA/EDIS
T/2017.2">
  <Success />
  <Response>
    <Order OrderID="ZDCCIJ" Owner="ET">
      <BookingReferences>
        <BookingReference>
          <ID>ZDCCIJ</ID>
          <AirlineID Name="ETHIOPIAN AIRLINES">ET</AirlineID>
        </BookingReference>
      </BookingReferences>
      <TotalOrderPrice>
        <SimpleCurrencyPrice Code="EUR">197.52</SimpleCurrencyPrice>
      </TotalOrderPrice>
      <Payments>
        <Payment>
```

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```

<Type>CA</Type>
<Status />
<Amount>
    <SimpleCurrencyPrice Code="EUR">197.52</SimpleCurrencyP
rice>
    </Amount>
    <Method>
        <CashMethod />
    </Method>
</Payment>
</Payments>
<OrderItems>
    <OrderItem OrderItemID="ORDERITEM001" Owner="ET">
        <PriceDetail>
            <TotalAmount>
                <SimpleCurrencyPrice Code="EUR">197.52</SimpleCurre
ncyPrice>
            </TotalAmount>
            <BaseAmount Code="EUR">142.00</BaseAmount>
            <Taxes>
                <Total Code="EUR">55.52</Total>
            </Taxes>
        </PriceDetail>
        <Service ServiceID="SV_1_001">
            <PassengerRef>PAX001 PAX002</PassengerRef>
            <ServiceRef>SV_EF</ServiceRef>
            <SegmentRef>SEG_ADDBJR_001</SegmentRef>
        </Service>
    </OrderItem>
</OrderItems>
</Order>
<TicketDocInfos>
    <TicketDocInfo>
        <TicketDocument>
            <TicketDocNbr>0712132301900</TicketDocNbr>
            <Type>T</Type>
            <NumberofBooklets>2</NumberofBooklets>
            <ReportingType>Airline</ReportingType>

```

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```

    </TicketDocument>
    <PassengerReference>PAX001</PassengerReference>
</TicketDocInfo>
<TicketDocInfo>
    <TicketDocument>
        <TicketDocNbr>0712132301901</TicketDocNbr>
        <Type>T</Type>
        <NumberofBooklets>2</NumberofBooklets>
        <ReportingType>Airline</ReportingType>
    </TicketDocument>
    <PassengerReference>PAX002</PassengerReference>
</TicketDocInfo>
</TicketDocInfos>
<DataLists>
    <PassengerList>
        <Passenger PassengerID="PAX001">
            <PTC>ADT</PTC>
            <Individual>
                <Birthdate>0001-01-01</Birthdate>
                <Gender>Female</Gender>
                <GivenName>JANE MR</GivenName>
                <Surname>SMITH</Surname>
            </Individual>
            <IdentityDocument>
                <IdentityDocumentNumber>012345678</IdentityDocumentNumb
er>

                <IdentityDocumentType>P</IdentityDocumentType>
                <IssuingCountryCode>US</IssuingCountryCode>
                <CitizenshipCountryCode>US</CitizenshipCountryCode>
                <ExpiryDate>2025-05-06</ExpiryDate>
                <Birthdate>0001-01-01</Birthdate>
                <Birthplace>US</Birthplace>
            </IdentityDocument>
            <ContactInfoRef>CONTACT_PAX_1</ContactInfoRef>
        </Passenger>
        <Passenger PassengerID="PAX002">
            <PTC>ADT</PTC>
            <Individual>

```

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```
<Birthdate>1988-06-10</Birthdate>
<Gender>Male</Gender>
<GivenName>SAWI MR</GivenName>
<Surname>SAWALE</Surname>
</Individual>
<IdentityDocument>
  <IdentityDocumentNumber>543000123</IdentityDocumentNumb
er>

  <IdentityDocumentType>F</IdentityDocumentType>
  <IssuingCountryCode>US</IssuingCountryCode>
  <CitizenshipCountryCode>US</CitizenshipCountryCode>
  <ExpiryDate>2022-01-16</ExpiryDate>
  <Birthdate>1988-06-10</Birthdate>
  <Birthplace>US</Birthplace>
</IdentityDocument>
<ContactInfoRef>CONTACT_PAX_2</ContactInfoRef>
</Passenger>
</PassengerList>
<ContactList>
  <ContactInformation ContactID="CONTACT_PAX_1">
    <ContactProvided>
      <Phone>
        <Label>HOME</Label>
        <CountryDialingCode>FRA</CountryDialingCode>
        <PhoneNumber>944123456</PhoneNumber>
      </Phone>
    </ContactProvided>
    <ContactProvided>
      <EmailAddress>
        <EmailAddressValue>JANE@MAIL.COM</EmailAddressValue
>

      </EmailAddress>
    </ContactProvided>
  </ContactInformation>
  <ContactInformation ContactID="CONTACT_PAX_2">
    <ContactProvided>
      <Phone>
        <Label>HOME</Label>
```

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```
<CountryDialingCode>FRA</CountryDialingCode>
  <PhoneNumber>944123456</PhoneNumber>
</Phone>
</ContactProvided>
<ContactProvided>
  <EmailAddress>
    <EmailAddressValue>JANE@MAIL.COM</EmailAddressValue>
  </EmailAddress>
</ContactProvided>
</ContactInformation>
</ContactList>
<BaggageAllowanceList />
<FlightSegmentList>
  <FlightSegment SegmentKey="SEG_ADDBJR_001">
    <Departure>
      <AirportCode>ADD</AirportCode>
      <Date>2022-05-06</Date>
      <Time>07:30</Time>
      <Terminal />
    </Departure>
    <Arrival>
      <AirportCode>BJR</AirportCode>
      <Date>2022-05-06</Date>
      <Time>08:30</Time>
      <Terminal />
    </Arrival>
    <MarketingCarrier>
      <AirlineID>ET</AirlineID>
      <FlightNumber>0126</FlightNumber>
    </MarketingCarrier>
    <OperatingCarrier>
      <AirlineID>ET</AirlineID>
      <FlightNumber>0126</FlightNumber>
    </OperatingCarrier>
    <Equipment>
      <AircraftCode>DH8</AircraftCode>
    </Equipment>
  </FlightSegment>
</FlightSegmentList>
```

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```
<ClassOfService>
  <Code>G</Code>
  <MarketingName>ECONOMY</MarketingName>
  <FareBasisCode>GET1</FareBasisCode>
</ClassOfService>
<FlightDetail>
  <FlightDistance>
    <Value>0204</Value>
    <UOM>Miles</UOM>
  </FlightDistance>
  <FlightDuration>
    <Value>PT0H60M</Value>
  </FlightDuration>
</FlightDetail>
</FlightSegment>
</FlightSegmentList>
<FlightList>
  <Flight FlightKey="FLT001">
    <SegmentReferences OnPoint="ADD" OffPoint="BJR">SEG_ADDBJR_
001</SegmentReferences>
  </Flight>
</FlightList>
<OriginDestinationList>
  <OriginDestination>
    <DepartureCode UOM="Miles">ADD</DepartureCode>
    <ArrivalCode UOM="Miles">BJR</ArrivalCode>
    <FlightReferences>FLT001</FlightReferences>
  </OriginDestination>
</OriginDestinationList>
<ServiceDefinitionList>
  <ServiceDefinition ServiceDefinitionID="SV_EF" Owner="ET">
    <Name>EF</Name>
    <Descriptions>
      <Description>
        <Text>ECONOMY FLEX</Text>
      </Description>
    </Descriptions>
  </ServiceDefinition>
```

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```
</ServiceDefinitionList>
</DataLists>
</Response>
</OrderViewRS>
```

SEAT AVAILABILITY

The seat availability functionality responses the available seat map for the given order

allowable NDC messages are

- Order Retrieve RQ / Orderview RS
- seatmap RQ/RS

URL - `{{BaseUrl}}/{{relative}}/FreeMeal/OrderDetailRetrieve`

ORDER RETRIVE: REQUEST BODY

- you may take the Order retrieve RQ from either of the above OrderRetrieveRQ

ORDER VIEW: ORDER CHANGE RESPONSE BODY

- you may take the Order View RS from either of the above OrderViewRS

KEY	VALUE	REQUIRED
Content-Type	application/xml	Yes
Accept	application/xml	Yes
Authorization	Bearer {{access_token}}	Yes

Seat Availability RQ	Details
<Document>	Document Tag
<Success>	Success flag indicator element will be returned to show if request was successful.
<ALaCarteOffer>	Container for standalone optional OfferItems.
<PassengerRefs>	Reference to the passengers who are eligible for this Offer Item

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<SegmentRefs>	Reference to the flight segments on which this Offer Item can be provided.
<Service>	One or more instances of a service definition (as found in DataLists) as it has been offered, and eventually ordered and consumed by a specific Passenger in the context of an Offer.
ServiceID (Attribute)	Unique identifier for this Service instance.
	Example: Service1
<ServiceDefinitionRef>	Reference to ServiceItems across different OfferItems within the same Offer.
<SeatMap>	Returns a list of cabins and the seats within it. When the Cabin Layout is returned, this information can be used by the Seller to render a graphical Seat Map.
<SegmentRef>	Flight segment for which seat map is returned.
<Cabin>	This is a list and will be repeated once for upper deck and once for the main deck when the requested cabin is spread across the upper and main deck
<CabinType>	Cabin type. Examples: First Class, Business Class Encoding Scheme
<CabinLayout>	Row detail.
<Columns>	Seat column to identify a particular seat position on an aircraft
	Returns the list of columns for the cabin
	Example: A,B,C,D,E,F
Position <i>attr</i>	Column position in of the seat.
	Example: A (AISLE SEAT)
	Note- If Column returns without a position, it means it's a Middle seat
<Rows>	Contains rows and seat information for seat display purposes
	Returns the starting end row position for each column
<First>	First-row number
	Row starting row position for columns A,B,C,D,E,F
	Example: 20

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<Last>	Last row number
	Row ending row position for columns A,B,C,D,E,F
	Example: 43
<WingPosition>	Over the wing row information, if applicable. This must be returned regardless of over the wing seats are returned as valid seats
<LastRow>	Wing ending row position
	Example: 27
<FirstRow>	Wing starting row position
	Example: 20
<ExitRowPosition>	Return the exit row information, if applicable. This must be returned regardless of whether exit row seats are open or are returned as valid seats
<RowPosition>	EXIT row detail
<First>	Exit seat starting row position
	Example: 30
<Last>	Exit seat ending row position
	Example: 30
<Component>	Non-Seat Cabin Component information.
<Location>	The physical location of the cabin component
<RowPosition>	A range of rows covered by a non-seat cabin component for seat map information
<Begin>	Non-seat's row position
	First row occupied by this item.
	Example: 13
<ColumnPosition>	Non-seat's column position
<Row>	Seat row, containing individual Seat instances
<Number>	Seat row number.
	Example: 2
<Seat>	Seat column to identify a particular seat position on an aircraft
<Column>	Seat Column
	Example: A
<SeatCharacteristics>	
<code>	Refers to aircraft seat characteristics.

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	PADIS message - IATA definition from codeset 9825 Example: (E) Exit Row seat and (K) Bulkhead seat SeatAvailabilityRS/SeatMap/Cabin/Row/Seat/SeatCharacteristics/Code
<OfferItemRefs>	Reference to the price point applicable to this individual seat. Multiple seats can reference the same OfferItem.

URL - {{BaseUrl}}/{{relative}}/FreeMeal/OrderDetailRetrieve

SEAT AVAILABILITY: SEAT AVAILABILITY REQUEST BODY

```
<SeatAvailabilityRQ EchoToken="{{${$guid}}}" xmlns="http://www.iata.org/IATA/EDIST/2017.2" Version="IATA2017.2" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Document>
    <Name>ETHIOPIAN AIRLINES NDC API</Name>
    <ReferenceVersion>1.0</ReferenceVersion>
  </Document>
  <Party>
    <Sender>
      <TravelAgencySender>
        <Name>Appliedline Travel</Name>
        <IATA_Number>12312312</IATA_Number>
        <AgencyID Owner="ET">A1</AgencyID>
      </TravelAgencySender>
    </Sender>
    <Participants>
      <Participant>
        <AggregatorParticipant SequenceNumber="1">
          <Name>AA Advanced Information Technology PLC</Name>
          <AggregatorID>88888888</AggregatorID>
        </AggregatorParticipant>
      </Participant>
    </Participants>
  </Party>
  <Recipient>
```

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```
<ORA_Recipient>
  <AirlineID>ET1</AirlineID>
  <Name>ETHIOPIAN AIRLINES</Name>
</ORA_Recipient>
</Recipient>
</Party>
<Query>
  <Order OrderID="{{OrderId}}" Owner = "ET"></Order>
</Query>
</SeatAvailabilityRQ>
```

SEAT AVAILABILITY: RESPONSE BODY

```
<SeatAvailabilityRS xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" Timestamp="0001-01-
01T00:00:00" Version="IATA2017.2" xmlns="http://www.iata.org/IATA/EDIST/2017.2"
>
  <Document>
    <Name>ETHIOPIAN AIRLINES NDC API</Name>
    <ReferenceVersion>1.0</ReferenceVersion>
  </Document>
  <Success />
  <ShoppingResponseID>
    <ResponseID> </ResponseID>
  </ShoppingResponseID>
  <SeatMap>
    <SegmentRef OnPoint="ADD" OffPoint="BJR">SEG_ADDBJR_001</SegmentRef>
    <Cabin>
      <CabinType>
        <Code>G</Code>
      </CabinType>
      <CabinLayout>
        <Columns Position="W">A</Columns>
        <Columns Position="A">C</Columns>
        <Columns Position="A">J</Columns>
        <Columns Position="W">L</Columns>
        <Rows>
```

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```
<First>11</First>
<Last>30</Last>
</Rows>
</CabinLayout>
<Row>
  <Number>11</Number>
  <Seat>
    <Column>A</Column>
    <SeatStatus>F</SeatStatus>
    <SeatCharacteristics>
      <Code>W</Code>
    </SeatCharacteristics>
    <SeatDefinitionRef>SEATDEF002</SeatDefinitionRef>
  </Seat>
  <Seat>
    <Column>C</Column>
    <SeatStatus>F</SeatStatus>
    <SeatCharacteristics>
      <Code>A</Code>
    </SeatCharacteristics>
    <SeatDefinitionRef>SEATDEF003</SeatDefinitionRef>
  </Seat>
  <Seat>
    <Column>J</Column>
    <SeatStatus>F</SeatStatus>
    <SeatCharacteristics>
      <Code>A</Code>
    </SeatCharacteristics>
    <SeatDefinitionRef>SEATDEF003</SeatDefinitionRef>
  </Seat>
  .
  .
</DataLists>
  <FlightSegmentList>
    <FlightSegment SegmentKey="SEG_ADDBJR_001">
      <Departure>
        <AirportCode>ADD</AirportCode>
```

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```
<Date>2022-05-06</Date>
<Time>07:30</Time>
<Terminal>
  <Name>TERMINAL 1</Name>
</Terminal>
</Departure>
<Arrival>
  <AirportCode>BJR</AirportCode>
  <Date>2022-05-06</Date>
  <Time>08:30</Time>
  <Terminal />
</Arrival>
<MarketingCarrier>
  <AirlineID>ET</AirlineID>
  <FlightNumber>0126</FlightNumber>
</MarketingCarrier>
<OperatingCarrier>
  <AirlineID>ET</AirlineID>
  <FlightNumber>0126</FlightNumber>
</OperatingCarrier>
<Equipment>
  <AircraftCode>DH8</AircraftCode>
</Equipment>
<ClassOfService>
  <Code>G</Code>
  <MarketingName>ECONOMY</MarketingName>
  <FareBasisCode>GET1</FareBasisCode>
</ClassOfService>
<FlightDetail>
  <FlightDistance>
    <Value>0204</Value>
    <UOM>Miles</UOM>
  </FlightDistance>
  <FlightDuration>
    <Value>PT0H60M</Value>
  </FlightDuration>
</FlightDetail>
</FlightSegment>
```

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```
</FlightSegmentList>
<FlightList>
  <Flight FlightKey="FLT001">
    <SegmentReferences OnPoint="BJR" OffPoint="ADD">SEG_ADDBJR_001<
/SegmentReferences>
  </Flight>
</FlightList>
<OriginDestinationList>
  <OriginDestination>
    <DepartureCode UOM="Miles">ADD</DepartureCode>
    <ArrivalCode UOM="Miles">BJR</ArrivalCode>
    <FlightReferences>FLT001</FlightReferences>
  </OriginDestination>
</OriginDestinationList>
<SeatDefinitionList>
  <SeatDefinition SeatDefinitionID="SEATDEF001">
    <SeatCharacteristicCode>CH</SeatCharacteristicCode>
  </SeatDefinition>
  <SeatDefinition SeatDefinitionID="SEATDEF002">
    <SeatCharacteristicCode>W</SeatCharacteristicCode>
  </SeatDefinition>
  <SeatDefinition SeatDefinitionID="SEATDEF003">
    <SeatCharacteristicCode>A</SeatCharacteristicCode>
  </SeatDefinition>
  <SeatDefinition SeatDefinitionID="SEATDEF004">
    <SeatCharacteristicCode>9</SeatCharacteristicCode>
  </SeatDefinition>
</SeatDefinitionList>
</DataLists>
</SeatAvailabilityRS>
```

SEAT SELECT: SEAT SELECT REQUEST

Send the segment information on OrderItemID and passenger information on passenger reference

```
<OrderChangeRQ xmlns="http://www.iata.org/IATA/EDIST/2017.2" Version="17.2" xmlns:xsi="http://
/www.w3.org/2001/XMLSchema-instance">
  <Document>
    <Name>Ethiopianairlines NDC </Name>
```

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```
<ReferenceVersion>1.0</ReferenceVersion>
</Document>
<Party>
  <Sender>
    <TravelAgencySender>
      <Name>Ethiopianairlines TravelAgency</Name>
      <IATA_Number>12121212</IATA_Number>
      <AgencyID Owner="ET">A345345435</AgencyID>
    </TravelAgencySender>
  </Sender>
  <Participants>
    <Participant>
      <AggregatorParticipant SequenceNumber="1">
        <Name>JR TECHNOLOGIES</Name>
        <AggregatorID>88888888</AggregatorID>
      </AggregatorParticipant>
    </Participant>
  </Participants>
</Party>
<Query>
  <OrderID>{{OrderId}}</OrderID>
  <OrderServicing>
    <AcceptOffer>
      <Offer Owner="ET" ResponseID="865GW3DN94AZQWR">
        <OfferItem OfferItemID="SEG_ADDDXB_001">
          <PassengerRefs>PAX001</PassengerRefs>
          <SeatSelection>
            <Row>18</Row>
            <Column>A</Column>
          </SeatSelection>
        </OfferItem>
        <OfferItem OfferItemID="SEG_ADDDXB_001">
          <PassengerRefs>PAX002</PassengerRefs>
          <SeatSelection>
            <Row>18</Row>
            <Column>B</Column>
          </SeatSelection>
        </OfferItem>
        <OfferItem OfferItemID="SEG_DXBADD_002">
          <PassengerRefs>PAX001</PassengerRefs>
          <SeatSelection>
            <Row>18</Row>
            <Column>A</Column>
          </SeatSelection>
        </OfferItem>
        <OfferItem OfferItemID="SEG_DXBADD_002">
```

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```
<PassengerRefs>PAX002</PassengerRefs>
<SeatSelection>
  <Row>18</Row>
  <Column>B</Column>
</SeatSelection>
</OfferItem>
</Offer>
</AcceptOffer>
</OrderServicing>
<Payments>
  <Payment>
    <Type>CA</Type>
    <Method>
      <Cash CashInd="true" />
    </Method>
    <Amount Code="GBP">17.00</Amount>
  </Payment>
</Payments>
</Query>
<DataLists>
  <PassengerList>
    <Passenger PassengerID="Pax01">
      <PTC>ADT</PTC>
      <Individual>
        <GivenName>Jane</GivenName>
        <Surname>Smith</Surname>
      </Individual>
    </Passenger>
    <Passenger PassengerID="Pax02">
      <PTC>ADT</PTC>
      <Individual>
        <GivenName>Tade</GivenName>
        <Surname>Smith</Surname>
      </Individual>
    </Passenger>
  </PassengerList>
</DataLists>
</OrderChangeRQ>
```

FREE MEAL

This NDC functionality allows to add free meal to the booking. free meal is applicable for all international flights only.

Allowable NDC messages are

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- Order retrieve
- Service list – to retrieve meal list
- order change - add meal to the bookin

AVML	ASIAN VEGETARIAN MEAL
BBML	BABY MEAL
BLML	BLD ORSOFT MEAL
CHML	CHILD MEAL
DBML	DIABETIC MEAL
FPML	FRUIT PLATTER
GFML	GLUTEN FREE MEAL
HNML	HINDU MEAL
KSML	KOSHER
LCML	LOW CALORIE MEAL
LFML	LOW FAT MEAL
LSML	NO SALT ADDED MEAL
MOML	MOSLEM MEAL
NLML	NON LACTOSE MEAL
RVML	RAW VEGETARIAN MEAL
SFML	SEA FOOD MEAL
SPML	SPECIAL MEAL
VGML	VEGETARIAN NON LACTOSE
VJML	VEGETARIAN JAIN MEAL
VLML	VEGETARIAN LACTO OVO MEAL

URL: `{{BaseUrl}}{{relative}}/FreeMeal/OrderDetailRetrieve`

ORDER RETRIVE: REQUEST BODY

- you may take the Order retrieve RQ from either of the above OrderRetrieveRQ

ORDER VIEW: ORDER CHANGE RESPONSE BODY

- you may take the Order View RS from either of the above OrderViewRS

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KEY	VALUE	REQUIRED
Content-Type	application/xml	Yes
Accept	application/xml	Yes
Authorization	Bearer {{access_token}}	Yes

URL - {{BaseUrl}}/{{relative}}/FreeMeal/FreeMeal

RETRIVE FREE MEAL: SERVICE LIST REQUEST BODY

Service List RQ	Details
Version attr	Specify NDC schema message version. Always pass 17.2 This is a mandatory attribute in NDC schema. The service will not validate what is being passed in Version.
PrimaryLangID attr	Specifies the agent's preferred language. Service response will be returned in this language Example: EN If the requested language is not supported by ET or if this is not passed in the request then the default language will be used, which is English
<Document>	NDC Message Document information
<Name>	Document name will be always "ET"
<Party>	Party & Sender Definition
<Query>	Core Service Price query parameters
<OrderID>	Booking reference or PNR reference Example: YOMH3W
Owner attr	Specifies the owner of the booking Example: ET
<PassengerList>	Passenger data list definition. Note: This is an optional list to be passed in the request.

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The client is expected to pass passenger type code (PTC) and ResidenceCountryCode to be passed in the request.
If this list is passed in the request, then payment card information will be returned based on the passenger location in the ServiceList response.

```
<ServiceListRQ xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" Version="17.2" xmlns="http://www.iata.org/IATA/EDIST/2017.2">
  <Document>
    <Name>ET</Name>
  </Document>
  <Party>
    <Sender>
      <TravelAgencySender>
        <Type>OffLine</Type>
        <Contacts>
          <Contact>
            <AddressContact>
              <Street>TESTT ADDR1</Street>
              <Street>TESTT ADDR2</Street>
              <CityName>LON</CityName>
              <PostalCode>120000</PostalCode>
              <CountryCode>GB</CountryCode>
            </AddressContact>
            <EmailContact>
              <Address>ndc@ba.com</Address>
            </EmailContact>
          </Contact>
        </Contacts>
        <IATA_Number>*****</IATA_Number>
        <AgencyID>NDC AGENT</AgencyID>
      </TravelAgencySender>
    </Sender>
    <Participants>
      <Participant>
        <AggregatorParticipant SequenceNumber="1">
          <Name>NDC Aggregator</Name>
          <AggregatorID>*****</AggregatorID>
        </AggregatorParticipant>
      </Participant>
    </Participants>
  </Party>
</ServiceListRQ>
```

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```

        </AggregatorParticipant>
    </Participant>
</Participants>
</Party>
<Query>
    <OrderID Owner="ET">{{OrderId}}</OrderID>
</Query>
</ServiceListRQ>

```

MEAL AVAILABLE: SERVICE LIST RESPONSE BODY

The response body contains eligible passenger and segment references. The meal will be added to all international flight. domestic flight meal order will not be applicable.

Service List RS	detail
<Document>	Document Tag
<Success>	Success flag indicator element will be returned to show if request was successful.
<ReShoppingResponseID>	Unique ID for the response with which client can add ancillaries and services using OrderChange web service
<ResponseID>	Unique ID for the response with which client can add ancillaries and services using OrderChange web service
<ALaCarteOffer>	Container for standalone optional OfferItems.
offerid (Attribute)	Unique Offer identifier.
	Example: ZG0DZWC4RF478QO
owner (Attribute)	Owner is always ET
	Example: ET
<OfferExpirationDateTime>	Offer Expiry Time Limit returns the duration the offer is stored in the offer storage system.
<PriceGuaranteeTimeLimitDateTime>	Offered price will be honoured within this time limit.
ALaCarteOfferItem	One Service or Service Bundle which is priced per unit.
OfferItemID (Attribute)	Unique identifier for this OfferItem instance.
	Example: OFFERITEM-MAAS-001
<Eligibility>	Refers to the Passengers, Price class or Segments for which this offer item is eligible.

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<PassengerRefs>	Reference to the passengers who are eligible for this Offer Item
<SegmentRefs>	Reference to the flight segments on which this Offer can be provided.
<UnitPriceDetail>	Flat price for an individual unit of the referenced Service
<TotalAmount>	
<SimpleCurrencyPrice>	Total Price of the offer item
<Service>	One or more instances of a service definition (as found in DataLists) as it has been offered, and eventually ordered and consumed by a specific Passenger in the context of an Offer.
ServiceID (Attribute)	Unique identifier for this Service instance.
	Example: Service1
<ServiceDefinitionRef>	Reference to ServiceItems across different OfferItems within the same Offer.
<PassengerList>	List of all passengers to whom the OrderView is returned
<DisclosureList>	Seating policy link, Terms and conditions link and general seating rules are returned here
<FlightSegmentList>	Flight segment details to whom the seat map is returned
<FlightList>	List of flights in the Journey
<OriginDestinationList>	List of O&D's in the journey
<MediaList>	List of URLs to manage the booking online
<PenaltyList>	Fare rules list
<ServiceDefinitionList>	Service definition list which has been offered.

```

<ServiceListRS xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://www.iata.o
rg/IATA/EDIST/2017.2">
  <ShoppingResponseID>
    <ResponseID>U1BM8245VCKRA33</ResponseID>
  </ShoppingResponseID>
  <Success />
  <Document>
    <Name>ET</Name>
  </Document>
  <ALaCarteOffer OfferID="OFFER-001" Owner="ET">

```

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```
<AlaCarteOfferItem OfferItemID="OFFERITEM-AVML-001">
  <Eligibility>
    <PassengerRefs>PAX001 PAX002</PassengerRefs>
    <SegmentRefs>SEG_ADDBJR_001 </SegmentRefs>
  </Eligibility>
  <Service>
    <ServiceDefinitionRef>SV_AVML</ServiceDefinitionRef>
  </Service>
</AlaCarteOfferItem>
<AlaCarteOfferItem OfferItemID="OFFERITEM-BBML-002">
  <Eligibility>
    <PassengerRefs>PAX001 PAX002</PassengerRefs>
    <SegmentRefs>SEG_ADDBJR_001 </SegmentRefs>
  </Eligibility>
  <Service>
    <ServiceDefinitionRef>SV_BBML</ServiceDefinitionRef>
  </Service>
</AlaCarteOfferItem>
<AlaCarteOfferItem OfferItemID="OFFERITEM-BLML-003">
  <Eligibility>
    <PassengerRefs>PAX001 PAX002</PassengerRefs>
    <SegmentRefs>SEG_ADDBJR_001 </SegmentRefs>
  </Eligibility>
  <Service>
    <ServiceDefinitionRef>SV_BLML</ServiceDefinitionRef>
  </Service>
</AlaCarteOfferItem>
<AlaCarteOfferItem OfferItemID="OFFERITEM-CHML-004">
  <Eligibility>
    <PassengerRefs>PAX001 PAX002</PassengerRefs>
    <SegmentRefs>SEG_ADDBJR_001 </SegmentRefs>
  </Eligibility>
  <Service>
    <ServiceDefinitionRef>SV_CHML</ServiceDefinitionRef>
  </Service>
</AlaCarteOfferItem>
```

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```
<ServiceDefinition ServiceDefinitionID="SV_VJML" Owner="ET">
  <Name>VJML</Name>
  <Descriptions>
    <Description>
      <Text>VEGETARIAN JAIN MEAL</Text>
    </Description>
  </Descriptions>
</ServiceDefinition>
<ServiceDefinition ServiceDefinitionID="SV_VLML" Owner="ET">
  <Name>VLML</Name>
  <Descriptions>
    <Description>
      <Text>VEGETARIAN LACTO OVO MEAL</Text>
    </Description>
  </Descriptions>
</ServiceDefinition>
</ServiceDefinitionList>
</DataLists>
</ServiceListRS>
```

URL : {{BaseUrl}}/{{relative}}/FreeMeal/OrderFreeMeal

ADD MEAL: ORDER CHANGE REQUEST BODY

Pass the response ID and offer Item and passenger ID on the request body. The meal will be added to all international flight. domestic flight meal order will not be applicable

```
<OrderChangeRQ Version="17.2" PrimaryLangID="EN" AltLangID="EN" xmlns="http://www.iata.org/IATA/EDIST/2017.2">
  <Document>
    <Name>ET</Name>
  </Document>
  <Party>
    <Sender>
      <TravelAgencySender>
        <Contacts>
```

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```
<Contact>
  <EmailContact>
    <Address>agent.email@ba.com</Address>
  </EmailContact>
</Contact>
</Contacts>
<IATA_Number>00000000</IATA_Number>
<AgencyID>Test_Agent</AgencyID>
</TravelAgencySender>
</Sender>
</Party>
<Query>
  <OrderID Owner="ET">{{OrderId}}</OrderID>
  <OrderServicing>
    <AcceptOffer>
      <Offer OfferID="OFFER-
001" Owner="ET" ResponseID="0BD2ZGY0XUOP01X">
        <OfferItem OfferItemID="OFFERITEM-AVML-001">
          <PassengerRefs>PAX001</PassengerRefs>
        </OfferItem>
        <OfferItem OfferItemID="OFFERITEM-BLML-003">
          <PassengerRefs>PAX002</PassengerRefs>
        </OfferItem>
      </Offer>
    </AcceptOffer>
  </OrderServicing>
</Query>
</OrderChangeRQ>
```

ADD MEAL: ORDER CHANGE RESONSE BODY

```
<OrderViewRS xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" TimeStamp="2022-04-
19T16:15:27.2557749Z" Version="IATA2017.2" xmlns="http://www.iata.org/IATA/EDIS
T/2017.2">
  <Success />
  <Response>
    <Order OrderID="ZDCCIJ" Owner="ET">
```

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```
<BookingReferences>
  <BookingReference>
    <ID>ZDCCIJ</ID>
    <AirlineID Name="ETHIOPIAN AIRLINES">ET</AirlineID>
  </BookingReference>
</BookingReferences>
<TotalOrderPrice>
  <SimpleCurrencyPrice Code="EUR">197.52</SimpleCurrencyPrice>
</TotalOrderPrice>
<Payments>
  <Payment>
    <Type>CA</Type>
    <Status />
    <Amount>
      <SimpleCurrencyPrice Code="EUR">197.52</SimpleCurrencyP
rice>
    </Amount>
    <Method>
      <CashMethod />
    </Method>
  </Payment>
</Payments>
<OrderItems>
  <OrderItem OrderItemID="ORDERITEM001" Owner="ET">
    <PriceDetail>
      <TotalAmount>
        <SimpleCurrencyPrice Code="EUR">197.52</SimpleCurre
ncyPrice>
      </TotalAmount>
      <BaseAmount Code="EUR">142.00</BaseAmount>
      <Taxes>
        <Total Code="EUR">55.52</Total>
      </Taxes>
    </PriceDetail>
    <Service ServiceID="SV_1_001">
      <PassengerRef>PAX001 PAX002</PassengerRef>
      <ServiceRef>SV_EF</ServiceRef>
      <SegmentRef>SEG_ADDBJR_001</SegmentRef>
```

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```
</Service>
<Service ServiceID="SV_2_002">
  <PassengerRef>PAX001</PassengerRef>
  <ServiceRef>SV_AVML</ServiceRef>
  <SegmentRef>SEG_ADDBJR_001</SegmentRef>
</Service>
<Service ServiceID="SV_3_003">
  <PassengerRef>PAX002</PassengerRef>
  <ServiceRef>SV_BLML</ServiceRef>
  <SegmentRef>SEG_ADDBJR_001</SegmentRef>
</Service>
</OrderItem>
</OrderItems>
</Order>
<TicketDocInfos>
  <TicketDocInfo>
    <TicketDocument>
      <TicketDocNbr>0712132301900</TicketDocNbr>
      <Type>T</Type>
      <NumberOfBooklets>2</NumberOfBooklets>
      <ReportingType>Airline</ReportingType>
    </TicketDocument>
    <PassengerReference>PAX001</
    .
    .

<ServiceDefinition ServiceDefinitionID="SV_EF" Owner="ET">
  <Name>EF</Name>
  <Descriptions>
    <Description>
      <Text>ECONOMY FLEX</Text>
    </Description>
  </Descriptions>
</ServiceDefinition>
<ServiceDefinition ServiceDefinitionID="SV_AVML" Owner="ET">
  <Name>AVML</Name>
  <Descriptions>
    <Description>
```

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```
<Text>ASIAN VEGETARIAN MEAL</Text>
</Description>
</Descriptions>
</ServiceDefinition>
<ServiceDefinition ServiceDefinitionID="SV_BLM" Owner="ET">
  <Name>BLM</Name>
  <Descriptions>
    <Description>
      <Text> BLD ORSOFT MEAL </Text>
    </Description>
  </Descriptions>
</ServiceDefinition>
</ServiceDefinitionList>
</DataLists>
</Response>
</OrderViewRS>
```

ADD / UPDATE FQTV

	FQTV
OrderRetrive	{{BaseUrl}}/{{relative}}/FQTV/OrderDetailRetrieve
ADDFQTV	{{BaseUrl}}/{{relative}}/OrderChange/AddLoyaltyNumber
updateFQTV	{{BaseUrl}}/{{relative}}/OrderChange/UpdateLoyaltyNumber

SPECIAL SERVICE

This NDC functionality allows to add special services to the booking. alloable NDC messages are

- Order retrieve RQ / RS
- service list RQ /RS
- order change RQ/RS

KEY	VALUE	REQUIRED
Content-Type	application/xml	Yes
Accept	application/xml	Yes
Authorization	Bearer {{access_token}}	Yes

MAAS - Meet and Assist

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Description – helps travellers to skip long airport queues and forget the hassles of airport complicated formalities, by offering personal assistants, fast track services, airport lounge access, buggy service, porter service, and more

Max quantity – 1

DEAF - Deaf Passenger –

Description – Passenger have difficulty of hearing or deaf

Max quantity – 1

BLND - Blind Passenger

Description – Passenger have reduced vision or blind

Max quantity – 1

WCHR - wheelchair for Ramp

Description - Wheelchair assistance required; passenger can walk short distance up or down stairs.

Max quantity – 1

WCHS - wheelchair for Steps

Description - Wheelchair assistance required; passenger can walk short distance, but not up or down stairs.

Max quantity – 1

WCHC - wheelchair for Cabin

Description - Wheelchair required; passenger cannot walk any distance and will require the aisle chair to board.

Max quantity – 1

Service List Request definition

Service List RQ	Details
<Document>	NDC Message Document information
<Name>	Document name will be always "ET"
<Party>	Party & Sender Definition
<Query>	Core Service Price query parameters
<OrderID>	Booking reference or PNR reference Example: YOMH3W
Owner attr	Specifies the owner of the booking Example: ET
<PassengerList>	Passenger data list definition. Note: This is an optional list to be passed in the request. The client is expected to pass passenger type code (PTC) and ResidenceCountryCode to be passed in the request. If this list is passed in the request, then payment card information will be returned based on the passenger location in the ServiceList response.

SERVICE LIST: REQUEST BODY

ServiceList	{{BaseUrl}}/{{relative}}/SpecialService/SpecialService
-------------	--

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```
<ServiceListRQ xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" Version="17.2" xmlns="http://www.iata.org/IATA/EDIST/2017.2">
  <Document>
    <Name>ET</Name>
  </Document>
  <Party>
    <Sender>
      <TravelAgencySender>
        <Type>OffLine</Type>
        <Contacts>
          <Contact>
            <AddressContact>
              <Street>TESTT ADDR1</Street>
              <Street>TESTT ADDR2</Street>
              <CityName>LON</CityName>
              <PostalCode>120000</PostalCode>
              <CountryCode>GB</CountryCode>
            </AddressContact>
            <EmailContact>
              <Address>ndc@ba.com</Address>
            </EmailContact>
          </Contact>
        </Contacts>
        <IATA_Number>*****</IATA_Number>
        <AgencyID>NDC AGENT</AgencyID>
      </TravelAgencySender>
    </Sender>
    <Participants>
      <Participant>
        <AggregatorParticipant SequenceNumber="1">
          <Name>NDC Aggregator</Name>
          <AggregatorID>*****</AggregatorID>
        </AggregatorParticipant>
      </Participant>
    </Participants>
  </Party>
```

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```

<Query>
  <OrderID Owner="ET" >{{OrderId}}</OrderID>
</Query>
<DataLists>
  <PassengerList>
    <Passenger PassengerID="T2">
      <PTC>ADT</PTC>
      <Birthdate>1991-07-28</Birthdate>
      <Individual>
        <Gender>Male</Gender>
        <NameTitle>Mr</NameTitle>
        <GivenName>FNTESTA</GivenName>
        <Surname>LNTESTA</Surname>
      </Individual>
    </Passenger>
  </PassengerList>
</DataLists>
</ServiceListRQ>

```

SERVICE LIST: RESPONSE BODY

Service list response definition

Service List RS	detail
<Document>	Document Tag
<Success>	Success flag indicator element will be returned to show if request was successful.
<ReShoppingResponseID>	Unique ID for the response with which client can add ancillaries and services using OrderChange web service
<ResponseID>	Unique ID for the response with which client can add ancillaries and services using OrderChange web service
<ALaCarteOffer>	Container for standalone optional OfferItems.
offerid (Attribute)	Unique Offer identifier.
	Example: ZG0DZWC4RF478QO
owner (Attribute)	Owner is always ET
	Example: ET
<OfferExpirationDateTime>	Offer Expiry Time Limit returns the duration the offer is stored in the offer storage system.

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<PriceGuaranteeTimeLimitDateTime>	Offered price will be honoured within this time limit.
ALaCarteOfferItem	One Service or Service Bundle which is priced per unit.
OfferItemID (Attribute)	Unique identifier for this OfferItem instance.
	Example: OFFERITEM-MAAS-001
<Eligibility>	Refers to the Passengers, Price class or Segments for which this offer item is eligible.
<PassengerRefs>	Reference to the passengers who are eligible for this Offer Item
<SegmentRefs>	Reference to the flight segments on which this Offer can be provided.
<UnitPriceDetail>	Flat price for an individual unit of the referenced Service
<TotalAmount>	
<SimpleCurrencyPrice>	Total Price of the offer item
<Service>	One or more instances of a service definition (as found in DataLists) as it has been offered, and eventually ordered and consumed by a specific Passenger in the context of an Offer.
ServiceID (Attribute)	Unique identifier for this Service instance.
	Example: Service1
<ServiceDefinitionRef>	Reference to ServiceItems across different OfferItems within the same Offer.
<PassengerList>	List of all passengers to whom the OrderView is returned
<BaggageAllowanceList>	Baggage Allowance List
<DisclosureList>	Seating policy link, Terms and conditions link and general seating rules are returned here
<FlightSegmentList>	Flight segment details to whom the seat map is returned
<FlightList>	List of flights in the Journey
<OriginDestinationList>	List of O&D's in the journey
<MediaList>	List of URLs to manage the booking online
<PenaltyList>	Fare rules list
<ServiceDefinitionList>	Service definition list which has been offered.

ServiceListRS xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://www.iata.org/IATA/EDIST/2017.2">

<Document>

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```
<Name>ETHIOPIAN AIRLINES NDC API</Name>
<ReferenceVersion>IATA2017.2</ReferenceVersion>
</Document>
<Success />
<ShoppingResponseID>
  <ResponseID>ZG0DZWC4RF478Q0</ResponseID>
</ShoppingResponseID>
<AlaCarteOffer OfferID="OfferID-1" Owner="ET">
  <AlaCarteOfferItem OfferItemID="OFFERITEM-MAAS-001">
    <Eligibility>
      <PassengerRefs>PAX001 PAX002 </PassengerRefs>
      <SegmentRefs>SEG001 </SegmentRefs>
    </Eligibility>
    <Service ServiceID="SV_MAAS_001">
      <ServiceDefinitionRef>SV_MAAS</ServiceDefinitionRef>
    </Service>
  </AlaCarteOfferItem>
  <AlaCarteOfferItem OfferItemID="OFFERITEM-DEAF-002">
    <Eligibility>
      <PassengerRefs>PAX001 PAX002 </PassengerRefs>
      <SegmentRefs>SEG001 </SegmentRefs>
    </Eligibility>
    <Service ServiceID="SV_DEAF_002">
      <ServiceDefinitionRef>SV_DEAF</ServiceDefinitionRef>
    </Service>
  </AlaCarteOfferItem>
  <AlaCarteOfferItem OfferItemID="OFFERITEM-WCHR-003">
    <Eligibility>
      <PassengerRefs>PAX001 PAX002 </PassengerRefs>
      <SegmentRefs>SEG001 </SegmentRefs>
    </Eligibility>
    <Service ServiceID="SV_WCHR_003">
      <ServiceDefinitionRef>SV_WCHR</ServiceDefinitionRef>
    </Service>
  </AlaCarteOfferItem>
  <AlaCarteOfferItem OfferItemID="OFFERITEM-WCHS-004">
    <Eligibility>
      <PassengerRefs>PAX001 PAX002 </PassengerRefs>
```

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```
        <SegmentRefs>SEG001 </SegmentRefs>
    </Eligibility>
    <Service ServiceID="SV_WCHS_004">
        <ServiceDefinitionRef>SV_WCHS</ServiceDefinitionRef>
    </Service>
</AlaCarteOfferItem>
<AlaCarteOfferItem OfferItemID="OFFERITEM-WCHC-005">
    <Eligibility>
        <PassengerRefs>PAX001 PAX002 </PassengerRefs>
        <SegmentRefs>SEG001 </SegmentRefs>
    </Eligibility>
    <Service ServiceID="SV_WCHC_005">
        <ServiceDefinitionRef>SV_WCHC</ServiceDefinitionRef>
    </Service>
</AlaCarteOfferItem>
.
.

<Passenger PassengerID="PAX002">
    <PTC>ADT</PTC>
    <Individual>
        <Birthdate>1988-06-10</Birthdate>
        <Gender>Male</Gender>
        <GivenName>SAWI MR</GivenName>
        <Surname>SAWALE</Surname>
    </Individual>
    <IdentityDocument>
        <IdentityDocumentNumber>543000123</IdentityDocumentNumber>
        <IdentityDocumentType>F</IdentityDocumentType>
        <IssuingCountryCode>US</IssuingCountryCode>
        <CitizenshipCountryCode>US</CitizenshipCountryCode>
        <ExpiryDate>2022-01-16</ExpiryDate>
        <Birthdate>1988-06-10</Birthdate>
        <Birthplace>US</Birthplace>
    </IdentityDocument>
    <ContactInfoRef>CONTACT_PAX_2</ContactInfoRef>
</Passenger>
</PassengerList>
```

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```
<DisclosureList />
<FlightSegmentList>
  <FlightSegment SegmentKey="SEG_ADDBJR_001">
    <Departure>
      <AirportCode>ADD</AirportCode>
      <Date>2022-05-06</Date>
      <Time>07:30</Time>
      <Terminal>
        <Name>TERMINAL 1</Name>
      </Terminal>
    </Departure>
    <Arrival>
      <AirportCode>BJR</AirportCode>
      <Date>2022-05-06</Date>
      <Time>08:30</Time>
      <Terminal />
    </Arrival>
    <MarketingCarrier>
      <AirlineID>ET</AirlineID>
      <FlightNumber>0126</FlightNumber>
    </MarketingCarrier>
    <OperatingCarrier>
      <AirlineID>ET</AirlineID>
      <FlightNumber>0126</FlightNumber>
    </OperatingCarrier>
    <Equipment>
      <AircraftCode>DH8</AircraftCode>
    </Equipment>
    <ClassOfService>
      <Code>G</Code>
      <MarketingName>ECONOMY</MarketingName>
      <FareBasisCode>GET1</FareBasisCode>
    </ClassOfService>
    <FlightDetail>
      <FlightDistance>
        <Value>0204</Value>
        <UOM>Miles</UOM>
      </FlightDistance>
```

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```

        <FlightDuration>
            <Value>PT0H60M</Value>
        </FlightDuration>
    </FlightDetail>
</FlightSegment>
</FlightSegmentList>
<ServiceDefinitionList>
    <ServiceDefinition ServiceDefinitionID="SV_MAAS_Meet_and_Assist" Owner="ET">
        <Name>Meet and Assist</Name>
        <Descriptions>
            <Description>
                <Text>helps travellers to skip long airport queues and forget the hassles of airport complicated formalities, by offering personal assistants, fast track services, airport lounge access, buggy service, porter service, and more</Text>
            </Description>
        </Descriptions>
        <Detail>
            <ServiceItemQuantityRules>
                <MaximumQuantity>1</MaximumQuantity>
            </ServiceItemQuantityRules>
        </Detail>
    </ServiceDefinition>
    <ServiceDefinition ServiceDefinitionID="SV_DEAF_Deaf_Passenger" Owner="ET">
        <Name>Deaf Passenger</Name>
        <Descriptions>
            <Description>
                <Text>Passenger have difficulty of hearing or deaf.</Text>
            </Description>
        </Descriptions>
        <Detail>
            <ServiceItemQuantityRules>
                <MaximumQuantity>1</MaximumQuantity>
            </ServiceItemQuantityRules>
        </Detail>
    </ServiceDefinition>

```

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```
</ServiceDefinition>
<ServiceDefinition ServiceDefinitionID="SV_WCHR_Wheelchair_for_Ramp
" Owner="ET">
    <Name>Wheelchair for Ramp</Name>
    <Descriptions>
        <Description>
            <Text>Wheelchair assistance required; passenger can wal
k short distance up or down stairs.</Text>
        </Description>
    </Descriptions>
    <Detail>
        <ServiceItemQuantityRules>
            <MaximumQuantity>1</MaximumQuantity>
        </ServiceItemQuantityRules>
    </Detail>
</ServiceDefinition>
<ServiceDefinition ServiceDefinitionID="SV_WCHS_Wheelchair_for_Step
s" Owner="ET">
    <Name>Wheelchair for Steps</Name>
    <Descriptions>
        <Description>
            <Text>Wheelchair assistance required; passenger can wal
k short distance, but not up or down stairs.</Text>
        </Description>
    </Descriptions>
    <Detail>
        <ServiceItemQuantityRules>
            <MaximumQuantity>1</MaximumQuantity>
        </ServiceItemQuantityRules>
    </Detail>
</ServiceDefinition>
<ServiceDefinition ServiceDefinitionID="SV_WCHC_Wheelchair_for_Cabi
n" Owner="ET">
    <Name>Wheelchair for Cabin</Name>
    <Descriptions>
        <Description>
            <Text>Wheelchair required; passenger cannot walk any di
stance and will require the aisle chair to board.</Text>
```

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```

        </Description>
    </Descriptions>
    <Detail>
        <ServiceItemQuantityRules>
            <MaximumQuantity>1</MaximumQuantity>
        </ServiceItemQuantityRules>
    </Detail>
</ServiceDefinition>
</ServiceDefinitionList>
</DataLists>
</ServiceListRS>

```

ORDER CHANGE: REQUEST BODY

Replace the offerItemID and response ID from the service List RS

KEY	VALUE	REQUIRED
Content-Type	application/xml	Yes
Accept	application/xml	Yes
Authorization	Bearer {{access_token}}	Yes

OrderChange RQ	detail
<Document>	NDC Message Document information
<Name>	Document name will be always "ET"
<Party>	Party & Sender Definition
<Query>	Core Service Price query parameters.
<OrderID>	Booking reference or PNR reference Example: YOMH3W
Owner (Attribute)	Specifies the owner of the booking Example: ET
<OrderServicing>	Function to Add disability assistance.
<AcceptOffer>	Function to accept a new OfferItem and adding it to the existing Order
	Note Service allows disability assistance service to be added both on a ticketed booking and un-ticketed booking.

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<Offer>	Disability Assistance selected by the Passenger for requesting an Order to be created.
OfferID (attribute)	Reference to the OfferID of the selected Offer (assistance) (either a standard Offer or an a-la-carte Offer) returned in a previous ServiceList response.
Owner	Designator of Airline that owns/ assigned these IDs. Examples:ET
ResponseID	Reference to unique ServiceList session response ID, as provided in the previous ServiceList response.
<OfferItem>	Disability Assistance OfferItem selected by the Passenger for inclusion in the requested Order.
OfferItemID	Reference to the OfferItemID of the selected meal OfferItem (contained in either a standard Offer or an a-la-carte Offer) returned in a previous ServiceList response
<PassengerRefs>	Reference to the passenger(s) for which this OfferItem and selected Services (in case of Service Bundles) applies.
<ServiceSelection>	For service bundle selection
<ServiceID>	Reference to the Service (within the OfferItem) from which the bundling begins
<ServiceDefinitionID>	Id to define a selected ServiceDefinition from the selected bundle.

OrderRetrive	{{BaseUrl}}/{{relative}}/OrderRetrive/OrderDetailRetrieve
--------------	---

```
<OrderChangeRQ Version="17.2" PrimaryLangID="EN" AltLangID="EN" xmlns="http://www.iata.org/IATA/EDIST/2017.2">
```

```
  <Document>
```

```
    <Name>ET</Name>
```

```
  </Document>
```

```
  <Party>
```

```
    <Sender>
```

```
      <TravelAgencySender>
```

```
        <Contacts>
```

```
          <Contact>
```

```
            <EmailContact>
```

```
              <Address>agent.email@ba.com</Address>
```

```
            </EmailContact>
```

```
          </Contact>
```

```
        </Contacts>
```

```
        <IATA_Number>00000000</IATA_Number>
```

```
        <AgencyID>Test_Agent</AgencyID>
```

```
      </TravelAgencySender>
```

```
    </Sender>
```

```
  </Party>
```

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```
<Query>
  <OrderID Owner="ET">{{OrderId}}</OrderID>
  <OrderServicing>
    <AcceptOffer>
      <Offer OfferID="OFFER-
001" Owner="ET" ResponseID="ZG0DZWC4RF478Q0">
        <OfferItem OfferItemID="OFFERITEM-MAAS-001">
          <PassengerRefs>PAX001 PAX002</PassengerRefs>
        </OfferItem>
      </Offer>
    </AcceptOffer>
  </OrderServicing>
</Query>
<DataLists>
  <PassengerList>
    <Passenger PassengerID="PAX001">
      <PTC>ADT</PTC>
      <Individual>
        <Birthdate>1988-06-10</Birthdate>
        <Gender>Female</Gender>
        <GivenName>OREN MRS</GivenName>
        <Surname>VEUM</Surname>
      </Individual>
    </Passenger>
    <Passenger PassengerID="PAX002">
      <PTC>ADT</PTC>
      <Individual>
        <Birthdate>2000-09-09</Birthdate>
        <Gender>Male</Gender>
        <GivenName>GEOVANNI MRS</GivenName>
        <Surname>COLLIER</Surname>
      </Individual>
    </Passenger>
  </PassengerList>
</DataLists>
</OrderChangeRQ>
```

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ORDER VIEW: RESPONSE BODY

OrderViewRS	Root node of the request schema
@Version	NDC schema version
Document	ORA endpoint information
Name	Endpoint name
ReferenceVersion	Endpoint version
Success	Indicates a success response
Response	
Order	
@OrderID	PNR e.g. XUY6QD
@Owner	ORA
BookingReferences	
BookingReference	
ID	PNR e.g. XUY6QD
AirlineID	ET
@Name	Ethiopian Airlines
TotalOrderPrice	Total ticket price including taxes
SimpleCurrencyPrice	Total order price e.g. 107208
@Code	Currency code e.g. USD, GBP, EUR
Payments	
Payment	
Type	CC – CreditCard
Status	
StatusCode	OK
Amount	
SimpleCurrencyPriceCode	Total order price e.g. 107208
@Code	Currency code e.g. ETB
Method	
PaymentCardMethod	Indicates CreditCard payment
CardCode	AX, MC, ...
MaskedCardNumber	e.g. XXXXXXXXXXXX4343
TimeLimits	
PaymentTimeLimit	
@Timestamp	Time limit for ticketing in ISO standard e.g. 2019-02-13T20:58:12.2583646Z

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OrderItems	
OrderItem	
@OrderItemID	ORDERITEM001
@Owner	ET
PriceDetail	
TotalAmount	
SimpleCurrencyPrice	Total price including taxes
@Code	Currency code
BaseAmount	Base fare value
@Code	Currency code
Taxes	
Total	Tax value
@Code	Currency code
Service	Service per segment per passenger
@ServiceID	Unique service identification
PassengerRef	Passenger entitled to service
SegmentRef	Flight segment associated to service
TicketDocInfos	Collection of tickets per passenger
TicketDocInfo	Passenger ticket information
TicketDocument	
TicketDocNbr	Ticket number e.g. 0712121236978
Type	T
NumberOfBooklets	No of ticket per segment e.g. 1, 2
ReportingType	Airline
PassengerReference	Reference to a passenger ID e.g. PAX001
DataLists	
PassengerList	
Passenger	
@PassengerID	Unique passenger identifier e.g. PAX001
PTC	Passenger type e.g. ADT, CHD, INF
Individual	
Birthdate	Date of birth
Gender	Male, Female
NameTitle	MR, MRS, MS, MISS, MASTER, DR, PROF, AMB, SIR
GivenName	First name

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MiddleName	
Surname	Last name or family name
IdentityDocument	
IdentityDocumentNumber	Passport number
IdentityDocumentType	F – passport
IssuingCountryCode	Passport country code e.g. US
CitizenshipCountryCode	Country code of nationality e.g. ET
ExpiryDate	Passport expiry date. YYYY-MM-DD
Birthdate	Format YYYY-MM-DD
BaggageAllowanceList	Collection of baggage allowance information
BaggageAllowance	Baggage per segment per passenger
@BaggageAllowanceID	Unique ID
BaggageCategory	Checked – indicates checked in baggage
PieceAllowance	
@refs	Passenger reference e.g. PAX001
ApplicableParty	Traveler
TotalQuantity	Number of baggage allowed e.g. 2
PieceMeasurements	Baggage measurement information
@Quantity	Number of bags per measurement
FlightSegmentList	
FlightSegment	Flight segment information
@SegmentKey	Unique segment identification
Departure	
AirportCode	Departure airport e.g. ADD
Date	Departure date. Format YYYY-MM-DD
Time	Departure time. Format HH:MM
Terminal	
Name	Departure airport terminal
Arrival	
AirportCode	Arrival airport e.g. LOS
Date	Arrival date. Format YYYY-MM-DD
Time	Arrival time. Format HH:MM
Terminal	
Name	Arrival airport terminal
MarketingCarrier	Airline selling the ticket
AirlineID	IATA airline code

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FlightNumber	Flight number
OperatingCarrier	Airline operating the flight
AirlineID	IATA airline code
FlightNumber	Flight number
Equipment	
AircraftCode	Type of aircraft
ClassOfService	
Code	
MarketingName	Default segment brand
FareBasisCode	
FlightDetail	
FlightDistance	
Value	Flight distance value
UOM	Unit of measurement
FlightDuration	
Value	PT6H15M implies 6 hours and 15 minutes
FlightList	List of flights
Flight	Single flight with one or more segments
@FlightKey	Unique flight identification
SegmentReferences	Segments associated with flight
OnPoint	Origin city
OffPoint	Destination city
OriginDestinationList	List of flight origin and destination
OriginDestination	
DepartureCode	Departure city
@UOM	Unit of measurement
ArrivalCode	Arrival city
@UOM	Unit of measurement
FlightReferences	Flights associated to this origin destination

```

<OrderViewRS xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" Timestamp="2022-04-
20T06:32:05.3171725Z" Version="IATA2017.2" xmlns="http://www.iata.org/IATA/EDIS
T/2017.2">
  <Success />
  <Response>
    <Order OrderID="LGLXQV" Owner="ET">
      <BookingReferences>

```

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```

    <BookingReference>
      <ID>LGLXQV</ID>
      <AirlineID Name="ETHIOPIAN AIRLINES">ET</AirlineID>
    </BookingReference>
  </BookingReferences>
  <TotalOrderPrice>
    <SimpleCurrencyPrice Code="EUR">197.62</SimpleCurrencyPrice>
  </TotalOrderPrice>
  <Payments>
    <Payment>
      <Type>CA</Type>
      <Status />
      <Amount>
        <SimpleCurrencyPrice Code="EUR">197.62</SimpleCurrencyP
rice>

      </Amount>
      <Method>
        <CashMethod />
      </Method>
    </Payment>
  </Payments>
  <OrderItems>
    <OrderItem OrderItemID="ORDERITEM001" Owner="ET">
      <PriceDetail>
        <TotalAmount>
          <SimpleCurrencyPrice Code="EUR">197.62</SimpleCurre
ncyPrice>

          </TotalAmount>
          <BaseAmount Code="EUR">142.00</BaseAmount>
          <Taxes>
            <Total Code="EUR">55.62</Total>
          </Taxes>
        </PriceDetail>
        <Service ServiceID="SV_1_001">
          <PassengerRef>PAX001 PAX002</PassengerRef>
          <ServiceRef>SV_EF</ServiceRef>
          <SegmentRef>SEG_ADDBJR_001</SegmentRef>
        </Service>

```

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```
<Service ServiceID="SV_2_002">
  <PassengerRef>PAX001</PassengerRef>
  <ServiceRef>SV_MAAS</ServiceRef>
  <SegmentRef>SEG_ADDBJR_001</SegmentRef>
</Service>
<Service ServiceID="SV_2_002">
  <PassengerRef>PAX002</PassengerRef>
  <ServiceRef>SV_MAAS</ServiceRef>
  <SegmentRef>SEG_ADDBJR_001</SegmentRef>
</Service>
</OrderItem>
</OrderItems>
</Order>
<TicketDocInfos>
  <TicketDocInfo>
    <TicketDocument>
      <TicketDocNbr>0712132302468</TicketDocNbr>
      <Type>T</Type>
      <NumberofBooklets>2</NumberofBooklets>
      <ReportingType>Airline</ReportingType>
    </TicketDocument>
    <PassengerReference>PAX001</PassengerReference>
  </TicketDocInfo>
  <TicketDocInfo>
    <TicketDocument>
      <TicketDocNbr>0712132302469</TicketDocNbr>
      <Type>T</Type>
      <NumberofBooklets>2</NumberofBooklets>
      <ReportingType>Airline</ReportingType>
    </TicketDocument>
    <PassengerReference>PAX002</PassengerReference>
  </TicketDocInfo>
</TicketDocInfos>
<DataLists>
  <PassengerList>
    <Passenger PassengerID="PAX001">
      <PTC>ADT</PTC>
      <Individual>
```

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```
<Birthdate>1988-06-10</Birthdate>
<Gender>Male</Gender>
<GivenName>JANE MR</GivenName>
<Surname>SMITH</Surname>
</Individual>
<IdentityDocument>
  <IdentityDocumentNumber>543000123</IdentityDocumentNumb
er>

  <IdentityDocumentType>F</IdentityDocumentType>
  <IssuingCountryCode>US</IssuingCountryCode>
  <CitizenshipCountryCode>US</CitizenshipCountryCode>
  <ExpiryDate>2022-01-16</ExpiryDate>
  <Birthdate>1988-06-10</Birthdate>
  <Birthplace>US</Birthplace>
</IdentityDocument>
<ContactInfoRef>CONTACT_PAX_1</ContactInfoRef>
</Passenger>
<Passenger PassengerID="PAX002">
  <PTC>ADT</PTC>
  <Individual>
    <Birthdate>1988-06-10</Birthdate>
    <Gender>Male</Gender>
    <GivenName>SAWI MR</GivenName>
    <Surname>SAWALE</Surname>
  </Individual>
  <IdentityDocument>
```